

Prof. OĐUZ UZOL

Personal Information

Office Phone: [+90 312 210 7467](tel:+903122107467)

Email: uzol@metu.edu.tr

Web: <https://avesis.metu.edu.tr/uzol>

International Researcher IDs

ScholarID: z5l_wpoAAAAJ

ORCID: 0000-0002-0553-2853

Publons / Web Of Science ResearcherID: ABA-1645-2020

ScopusID: 6602531818

Yoksis Researcher ID: 163585

Education Information

Doctorate, Pennsylvania State University, Havacılık Ve Uzay Müh., United States Of America 1995 - 2000

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Havacılık Mühendisliği (YI) (Tezli), Turkey 1992 - 1995

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 1988 - 1992

Foreign Languages

English, C1 Advanced

Research Areas

Aeronautical and Space Engineering, Aeronautical Engineering , Testing Techniques, Aerodynamics, Aircraft Propulsion Systems, Ground Tests - Structural Tests (Deformation, Stress, Vibration, Acoustics, etc.), Engineering and Technology

Academic and Administrative Experience

Director of the Center, Middle East Technical University, Presidency Office, 2011 - Continues

Advising Theses

UZOL O., Deep learning based speed up of fluid dynamics solvers, Postgraduate, D.ALPER(Student), 2022

UZOL O., Inter farm interactions and hub height optimization for onshore wind farms, Postgraduate, G.KÜTÜKCÜ(Student), 2022

UZOL O., Ambient turbulence intensity effects on the characteristics of wake development of a model wind turbine and a matched porous disc, Postgraduate, B.ÖZTÜRK(Student), 2022

Uzol O., Perçin M., Experimental investigation of the helicopter blade tip shape effects on aerodynamic performance and tip vortex characteristics, Postgraduate, S.ULUOCAK(Student), 2019

UZOL O., Experimental investigation of the turbulent near wake flow field of multiscale/fractal grids, Doctorate, H.AMIRI(Student), 2018

UZOL O., Experimental investigation of the effects of tip geometry on the flow and loss characteristics in a linear turbine cascade, Postgraduate, O.ALİCAN(Student), 2017

UZOL O., Winglets for wind turbines: An experimental study on aerodynamic performance and tip vortex behavior, Doctorate, Y.OSTOVAN(Student), 2017

SEZER UZOL N., UZOL O., Computational fluid dynamics simulations of ship airwake with a hovering helicopter rotor, Postgraduate, E.ORBAY(Student), 2016

UZOL O., BARAN Ö. U., Passive flow control in boundary layer ingesting semi submerged inlet, Postgraduate, U.CAN(Student), 2015

UZOL O., Experimental investigation of the effects of tip injection on the characteristics of the tip vortex on a model wind turbine, Postgraduate, E.ANIK(Student), 2015

SARITAŞ A., UZOL O., Computational fluid dynamic analysis of wind loads acting on ground mounted solar panels /, Postgraduate, V.EMRE(Student), 2014

UZOL O., Simulation of a non-premixed Swirl burner, Postgraduate, M.BURAK(Student), 2014

UZOL O., Investigation of the effect of turbulence on entropy generation in turbomachinery, Doctorate, Ö.EMRE(Student), 2014

UZOL O., Simulation of a non-premixed swirl burner, Postgraduate, M.Burak(Student), 2014

UZOL O., Experimental investigation of the effects of tip-injection on the aerodynamic loads and wake characteristics of a model horizontal axis wind turbine rotor, Postgraduate, A.ABDULRAHIM(Student), 2014

UZOL O., Aerodynamic analysis of flatback airfoils using vortex particle method, Postgraduate, S.AYŞE(Student), 2014

TUNCER İ. H., UZOL O., Experimental and numerical investigation of pressure swirl atomizers, Doctorate, B.SÜMER(Student), 2014

UZOL O., İç soğutma kanallarında türbülantör kullanımının incelenmesi ve rans temelli türbülans modelleriyle benzetimi, Postgraduate, S.DURMUŞ(Student), 2014

UZOL O., An experimental study on boundary layer separation control over S809 airfoil using synthetic jet actuators, Postgraduate, M.GÜL(Student), 2013

Kurtuluş D. F., Uzol O., Experimental Investigation of Boundary Layer Separation Control using Steady Vortex Generator Jets on Low Pressure Turbines , Postgraduate, E.Doğan(Student), 2012

KUTAY A. T., UZOL O., Development of a high-fidelity transient aerothermal model for a helicopter turboshaft engine for inlet distortion and engine deterioration simulations, Postgraduate, Y.NOVIKOV(Student), 2012

UZOL O., Aerodynamic analysis of long-span bridge cross-sections using random vortex method, Postgraduate, H.KAYA(Student), 2012

UZOL O., Experimental investigation of the effects of waveform tip injection on the characteristics of tip leakage vortex in a LPT cascade, Postgraduate, B.MERCAN(Student), 2012

UZOL O., Compressor tandem blade aerothermodynamic performance evaluation using CFD, Postgraduate, Ç.Gezgüç(Student), 2012

SEZER UZOL N., UZOL O., Three-dimensional flow solutions for non-lifting flows using fast multipole boundary element method, Postgraduate, U.KARBAN(Student), 2012

UZOL O., KUTAY A. T., Development of a high-fidelity transient aerothermal model for a helicopter turboshaft engine for inlet distortion and engine deterioration simulations, Postgraduate, Y.Novikov(Student), 2012

UZOL O., Compressor tandem blade aerothermodynamic performance evaluation using CFD, Postgraduate, Ç.GEZGÜÇ(Student), 2012

TUNCER İ. H., UZOL O., Detached eddy simulation of turbulent flow on 2D hybrid grids, Postgraduate, Ö.YIRTICI(Student), 2012

KURÇ Ö., UZOL O., Experimental and numerical investigation of the wind effects on long span bridge decks, Postgraduate, I.ASHTIANI(Student), 2011

UZOL O., Design and analysis of a full scale air vitiator for high speed wind tunnel, Postgraduate, M.BAYRAMOĞLU(Student), 2011

UZOL O., Experimental investigation of waveform tip injection on the characteristics of the tip vortex, Postgraduate, Y.Ostovan(Student), 2011

UZOL O., DEVELOPMENT AND VALIDATION OF A DESIGN TOOL FOR A GAS TURBINE COMBUSTION CHAMBER, Postgraduate, A.ELBİR(Student), 2010

UZOL O., SEZER UZOL N., Site specific design optimization of a horizontal axis wind turbine based on minimum cost of energy, Postgraduate, E.SAĞOL(Student), 2010

UZOL O., A parametric investigation of tip injection for active tip vortex control, Postgraduate, R.CAN(Student), 2010

UZOL O., Design and optimization of a mixed flow compressor impeller using robust design methods, Postgraduate, M.Çevik(Student), 2009

ÖZGEN S., UZOL O., Parametric investigation of spray characteristics using interferometric particle imaging technique, Postgraduate, N.ERKİN(Student), 2009

SEZER UZOL N., UZOL O., Investigation of rotor wake interactions in helicopters using 3D unsteady free vortex wake methodology, Postgraduate, Ö.YEMENİCİ(Student), 2009

UZOL O., Design and optimization of a mixed flow impeller using robust design methods, Postgraduate, M.ÇEVİK(Student), 2009

ÖZGEN S., UZOL O., Experimental investigation of near and far field flow characteristics of circular and non-circular turbulent jets, Postgraduate, G.TAŞAR(Student), 2008

UZOL O., Aerothermodynamic modeling and simulation of gas turbines for transient operating conditions, Postgraduate, G.KOÇER(Student), 2008

Taught Courses And Trainings

Uzol O., Durak M., Oğuz E., Huvaj Sarihan N., Taktak O., Sümer B. M., Kirca V. Ş. Ö., Keysan O., Yaşacan B., Şekerci E., DENİZÜSTÜ RÜZGAR ENERJİSİ EĞİTİMİ PROGRAM, 2021 - 2021

Uzol O., Çöker D., Kayran A., Sezer Uzol N., Oğuz E., Huvaj Sarihan N., Keysan O., Perçin M., Rüzgar Türbin Teknolojileri Temel Eğitimi , 2021 - 2021

Uzol O., Kayran A., Sezer Uzol N., Çöker D., Huvaj Sarihan N., Oğuz E., Keysan O., Perçin M., Rüzgar Enerjisi ve Rüzgar Türbini Teknolojileri Temel Eğitimi, 2019 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On the wake characteristics of a model wind turbine and a porous disc: Effects of freestream turbulence intensity**
ÖZTÜRK B., Hassanein A., Akpolat M. T., Abdulrahim A., PERÇİN M., UZOL O.
Renewable Energy, vol.212, pp.238-250, 2023 (SCI-Expanded)
- II. **Tip Vortex Meandering Characteristics of a Model Helicopter Rotor with Different Tip Shapes**
Uluocak S., PERÇİN M., UZOL O.
AIAA JOURNAL, vol.61, pp.2970-2981, 2023 (SCI-Expanded)
- III. **The aerodynamic effects of blade pitch angle on small horizontal axis wind turbines**
Kaya M. N., UZOL O., Ingham D., Köse F., Buyukzeren R.
International Journal of Numerical Methods for Heat and Fluid Flow, vol.33, no.1, pp.120-134, 2023 (SCI-Expanded)
- IV. **Monte-Carlo simulations based hub height optimization using FLORIS for two interacting onshore wind farms**
Kutukcu G., UZOL O.
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.14, no.6, 2022 (SCI-Expanded)
- V. **Aerodynamic Optimization of a Swept Horizontal Axis Wind Turbine Blade**
Kaya M. N., Kose F., UZOL O., Ingham D., Ma L., Pourkashanian M.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.143, no.9, 2021 (SCI-Expanded)
- VI. **Experimental investigation of tip anhedral effects on the aerodynamics of a model helicopter rotor**

in hover

Uluocak S., PERÇİN M., UZOL O.

Aerospace Science and Technology, vol.113, 2021 (SCI-Expanded)

- VII. **Effects of inflow boundary layer on the wake of a radially non-uniform porous disk**
Abdulrahim A., Akpolat M. T., Hassanein A., PERÇİN M., UZOL O.
Journal of Renewable and Sustainable Energy, vol.13, no.3, 2021 (SCI-Expanded)
- VIII. **Round-robin tests of porous disc models**
Aubrun S., Bastankhah M., Cal R., Conan B., Hearst R., Hoek D., Hölling M., Huang M., Hur C., Karlsen B., et al.
Journal of Physics: Conference Series, vol.1256, no.1, 2019 (SCI-Expanded)
- IX. **Experimental Investigation of the Effects of Winglets on the Tip Vortex Behavior of a Model Horizontal Axis Wind Turbine Using Particle Image Velocimetry**
Ostovan Y., Akpolat M. T., UZOL O.
JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, vol.141, no.1, 2019 (SCI-Expanded)
- X. **Experimental investigation of wake flow field and wind comfort characteristics of fractal wind fences**
Coskun S., Hazaveh H. A., UZOL O., KURÇ Ö.
JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS, vol.168, pp.32-47, 2017 (SCI-Expanded)
- XI. **Effects of tip injection on the performance and near wake characteristics of a model wind turbine rotor**
Abdulrahim A., Anik E., Ostovan Y., UZOL O.
RENEWABLE ENERGY, vol.88, pp.73-82, 2016 (SCI-Expanded)
- XII. **Effects of camberwise varying tip injection on loss and wake characteristics of a low pressure turbine blade**
Mercan B., Dogan E., Ostovan Y., UZOL O.
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.54, pp.119-130, 2015 (SCI-Expanded)
- XIII. **Atmospheric boundary layer simulation in a short wind tunnel**
Shojaee S. M. N., UZOL O., KURÇ Ö.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.11, no.1, pp.59-68, 2014 (SCI-Expanded)
- XIV. **Mathematical Modeling of the NOTAR Antitorque System for Flight Simulation**
YAVRUCUK İ., Bakir H. M., UZOL O.
JOURNAL OF THE AMERICAN HELICOPTER SOCIETY, vol.58, no.2, 2013 (SCI-Expanded)
- XV. **Effect of steady and transient wind shear on the wake structure and performance of a horizontal axis wind turbine rotor**
Sezer Uzol N., Uzol O.
WIND ENERGY, vol.16, no.1, pp.1-17, 2013 (SCI-Expanded)
- XVI. **Investigation of Wind Effects on Tall Buildings through Wind Tunnel Testing**
KURÇ Ö., Kayisoglu B., Shojaee S. M. N., UZOL O.
TEKNIK DERGI, vol.23, no.4, pp.6163-6186, 2012 (SCI-Expanded)
- XVII. **Investigation of the Linear Stability Problem of Electrified Jets, Inviscid Analysis**
ÖZGEN S., UZOL O.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.134, no.9, 2012 (SCI-Expanded)
- XVIII. **Design optimization of a mixed-flow compressor impeller for a small turbojet engine**
Cevik M., UZOL O.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.83, no.3, pp.127-137, 2011 (SCI-Expanded)
- XIX. **Panel-Method-Based Path Planning and Collaborative Target Tracking for Swarming Micro Air Vehicles**
Uzol O., Yavrucuk İ., Sezer Uzol N.
JOURNAL OF AIRCRAFT, vol.47, no.2, pp.544-550, 2010 (SCI-Expanded)
- XX. **A database of PIV measurements within a turbomachinery stage and sample comparisons with unsteady RANS**
Uzol O., Brzozowski D., Chow Y., Katz J., Meneveau C.

JOURNAL OF TURBULENCE, vol.8, no.10, pp.1-20, 2007 (SCI-Expanded)

XXI. Average passage flow field and deterministic stresses in the tip and hub regions of a multistage turbomachine

UZOL O., Chow Y. C., Katz J., Meneveau C.

Journal Of Turbomachinery-Transactions Of The Asme, vol.125, no.4, pp.714-725, 2003 (SCI-Expanded)

Articles Published in Other Journals

I. Effect of chordwise modulated waveform tip injection on the characteristics of the tip vortex

Mercan B., Ostovan Y., Dogan E., UZOL O.

40th AIAA Fluid Dynamics Conference, vol.1, 2010 (Scopus)

Books & Book Chapters

I. CFD Simulations for Airfoil Polars

SEZER UZOL N., UZOL O., ORBAY AKCENGİZ E.

in: Handbook of Wind Energy Aerodynamics, Bernhard Stoevesandt, Gerard Schepers, Peter Fuglsang, Sun Yuping, Editor, Springer, pp.206-233, 2021

Refereed Congress / Symposium Publications in Proceedings

I. Machine Learning Based Predictions of Airfoil Aerodynamic Coefficients for Reynolds Number Extrapolations

Özgören A. C., Acar D. A., Kamrak R., Eriş G. M., Özdemir Y., Uzol N. S., UZOL O.

2024 Science of Making Torque from Wind, TORQUE 2024, Florence, Italy, 29 - 31 May 2024, vol.2767

II. Aeroelastic Analysis of DTU 10 MW Reference Wind Turbine Under Icing Conditions

Kepez D., Uzol O., Özgen S.

Wind Energy Science Conference 2023, Glasgow, England, 23 May 2023

III. Proper Orthogonal Decomposition (POD) of the Wake Flow Field of a Model Wind Turbine and a Porous Disc under Different Freestream Turbulence Intensity Conditions

ÖZTÜRK B., Hassanein A., Tuğrul Akpolat M., Abdulrahim A., PERÇİN M., UZOL O.

8th Wake Conference 2023, Visby, Sweden, 20 - 22 June 2023, vol.2505

IV. Effects of freestream turbulence on the wake growth rate of a model wind turbine and a porous disc

Öztürk B., HASSANEIN A., Akpolat M. T., ABDULRAHİM A., PERÇİN M., UZOL O.

The Science of Making Torque from Wind (TORQUE 2022), Delft, Netherlands, 1 - 03 June 2022

V. Design of a gust generator and comparison of model wind turbine and porous disc wake flows in a transverse gust

YİĞİLİ İ., ANDIRIN M. A., Akpolat M. T., BAŞKAN PERÇİN Ö., PERÇİN M., UZOL O.

The Science of Making Torque from Wind (TORQUE 2022), Delft, Netherlands, 1 - 03 June 2022

VI. Rüzgar tüneli testlerinde blokaj seviyesinin küçük ölçekli bir rüzgar türbininin performansı üzerindeki etkisi

EROL B., Karabakla E., ABDULRAHİM A., PERÇİN M., UZOL O.

6. İzmir Rüzgar Sempozyumu, Turkey, 23 - 24 September 2021

VII. Experimental characterization of micro vortex generators in low-speed flows

AKPOLAT M. T., ABDULRAHİM A., HASSANEIN A., UZOL O., PERÇİN M.

11th Ankara International Aerospace Conference (AIAC 2021), Ankara, Turkey, 8 - 10 September 2021

VIII. DETERMINATION OF WAKE SHAPES BEHIND A WIND TURBINE THROUGH CFD SIMULATIONS AND COMPARISON WITH ANALYTICAL WAKE MODELS

- Adam A. A., Deniz O. N., Sezer Uzol N., Uzol O.
11th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 8 - 10 September 2021, pp.1-25
- IX. **Determination of Wake Shapes Behind A Wind Turbine Through CFD Simulations and Comparison with Analytical Wake Models**
Adam A. A., Deniz O. N., SEZER UZOL N., UZOL O.
AIAC-2021-079, 11th Ankara International Aerospace Conference, 8-10 September 2021 - METU, Ankara TURKEY., Ankara, Turkey, 8 - 10 September 2021
- X. **Effects of wind tunnel blockage and turbulence intensity on the performance of a small wind turbine: an in-house round robin study**
EROL B., ABDULRAHİM A., PERÇİN M., UZOL O.
Wind Energy Science Conference (WESC 2021), Hannover, Germany, 25 - 28 May 2021
- XI. **Comparison of analytical wake model predictions with experimental data for a non-uniform porous disc for uniform and non-uniform inflow**
ABDULRAHİM A., AKPOLAT M. T., PERÇİN M., UZOL O.
Wind Energy Science Conference (WESC 2021), Hannover, Germany, 25 - 28 May 2021
- XII. **Yatay Eksenli Rüzgâr Türbinleri İçin Gürbüz Tasarım Yöntemi**
ALTUĞ YALÇIN A. H., YAVRUCUK İ., UZOL O.
5. İzmir Rüzgar Sempozyumu ve Sergisi, Turkey, 3 - 05 October 2019
- XIII. **A NUMERICAL ASSESSMENT OF ATMOSPHERIC BOUNDARY LAYER SIMULATION INSIDE TWO DIFFERENT BOUNDARY LAYER WIND TUNNELS**
Abdulrahim A., ELFARRA M., UZOL O.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 18 - 20 September 2019
- XIV. **Comparison of Wake Models with Porous Disc Wake Profile Measurements**
Hazaveh H. A., Bay A., Aysan M. S., Yanık T., Yazdanpanah M., Yiğilı İ., Yağmur A. S., Perçin M., Uzol O.
Wind Energy Science Conference (WESC), Cork, Ireland, 17 - 20 June 2019
- XV. **Sensitivity of Load and Power Responses to Blade Chord and Twist Distributions for Various Inflow Turbulence Conditions**
ALTUĞ YALÇIN A. H., YAVRUCUK İ., UZOL O.
Wind Energy Science Conference WESC 2019, 17 - 20 June 2019
- XVI. **Helikopter Pal Ucu Şekillerinin Aerodinamik Performansa ve Uç Girdabına Etkisinin Deneysel Olarak İncelenmesi**
Uluocak S., Hazaveh H. A., Perçin M., Akpolat M. T., Uzol O.
7. Ulusal Havacılık ve Uzay Konferansı, Samsun, Turkey, 12 - 14 September 2018
- XVII. **Experimental investigation of the effects of helicopter rotor tip geometries on aerodynamic performance and tip vortex characteristics**
Uluocak S., Hazaveh H. A., PERÇİN M., Akpolat M. T., UZOL O.
44th European Rotorcraft Forum, 18 - 21 September 2018
- XVIII. **Experimental study on power curtailment of three in-line turbines**
Bartl J., Ostovan Y., UZOL O., Saetran L.
14th Deep Sea Offshore Wind R and D Conference (EERA DeepWind), Trondheim, Norway, 18 - 20 January 2017, vol.137, pp.307-314
- XIX. **Experimental Study on the Effects of Winglets on the Performance of Two Interacting Horizontal Axis Model Wind Turbines**
Ostovan Y., UZOL O.
Conference on Science of Making Torque from Wind (TORQUE), Munich, Germany, 5 - 07 October 2016, vol.753
- XX. **Wind loads acting on solar panels in a row by CFD analysis**
USLU V. E., SARITAŞ A., UZOL O.
The 2016 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM16)/The 2016 Structures Congress (Structures16), Jeju, Korea, 28 August - 01 September 2016, Jeju, South Korea, 28 August - 01 September 2016
- XXI. **Effects of Mie Vanes and Tip Injection on the Performance and Wake Characteristics of HAWT**

- anik e., abdulrahim a., UZOL O.
34th ASME Wind Energy Symposium, AIAA SciTech 2016, San Diego, California, USA, 4 - 08 January 2016
- XXII. **Development and Testing of a Fuzzy Logic Controller for a Small Turbojet Engine**
ekinci s., uşenmez s., YAVRUCUK İ., UZOL O.
AIAA SciTech 2016, San Diego, California, USA, 4 - 08 January 2016
- XXIII. **Passive Flow Control in Boundary Layer Ingesting Semi Submerged Inlet**
küçük u. c., BARAN Ö. U., UZOL O.
51st AIAA/SAE/ASEE Joint Propulsion Conference, 27 - 29 July 2015
- XXIV. **Experimental Investigation of the Wake Flow Field of a Model Wind Turbine Rotor with Tip Injection**
Abdulrahim A., Anık E., UZOL O.
AIAA SciTech ASME Wind Energy Symposium, Kissimmee, FL, United States Of America, 5 - 09 January 2015
- XXV. **Unsteady RANS for Simulation of High Swirling Non Premixed Methane Air Flame**
solmaz b., USLU S., UZOL O.
50th AIAA/ASME/SAE/ASEE Joint Propulsion Conference, Cleveland, OH, 28 - 30 July 2014
- XXVI. **APPLICATION OF A FUZZY LOGIC CONTROLLER FOR SPEED CONTROL ON A SMALL-SCALE TURBOJET ENGINE**
Usenmez S., Ekinci S., UZOL O., YAVRUCUK İ.
ASME Turbo Expo: Turbine Technical Conference and Exposition, Düsseldorf, Germany, 16 - 20 June 2014
- XXVII. **GPU Based Fast Free-Wake Calculations For Multiple Horizontal Axis Wind Turbine Rotors**
Turkal M., Novikov Y., Usenmez S., SEZER UZOL N., UZOL O.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524
- XXVIII. **An Experimental Study on Active Flow Control Using Synthetic Jet Actuators over S809 Airfoil**
Gul M., Uzol O., Akmandor I. S.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524
- XXIX. **GPU Based Fast Free Wake Calculations for Multiple Horizontal Axis Wind Turbine Rotors**
Türkal M., Novikov Y., Üşenmez S., Sezer Uzol N., Uzol O.
The Science of Making Torque From Wind, TORQUE 20014, Kobenhavn, Denmark, 18 - 20 June 2014
- XXX. **Active control of the tip vortex: an experimental investigation on the performance characteristics of a model turbine**
Anık E., Abdulrahim A., Ostovan Y., Mercan B., UZOL O.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524
- XXXI. **Helikopter Simülatorları için Dinamik Turboşaft Motor Modeli Geliştirilmesi ve Simülatöre Entegrasyonu**
UZOL O., YAVRUCUK İ.
USMOS 2013, Turkey, 11 - 12 June 2013
- XXXII. **Flat Plate Film Cooling Performance Predictions by RANS Turbulence Models**
Inanlı S., Gorgulu I., OKUTUCU ÖZYURT H. T., UZOL O.
7th International Symposium on Turbulence Heat and Mass Transfer (THMT), Palermo, Italy, 24 - 27 September 2012, pp.1262-1271
- XXXIII. **EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF WAVEFORM TIP INJECTION IN A LOW PRESSURE TURBINE CASCADE**
Mercan B., Dogan E., Ostovan Y., UZOL O.
ASME Turbo Expo 2012, Copenhagen, Denmark, 11 - 15 June 2012, pp.1473-1485
- XXXIV. **Direct Calculation of Entropy Generation by Solving Reynolds-Averaged Entropy Transport Equation in an Air-Cooled Turbine Cascade**
Orhan O. E., Uzol O.
ASME Turbo Expo 2012, Copenhagen, Denmark, 11 - 15 June 2012, pp.777-783
- XXXV. **Experimental and numerical investigation of a pressure swirl atomizer**
Sumer B., Erkan N., UZOL O., TUNCER İ. H.
12th International Conference on Liquid Atomization and Spray Systems, ICLASS 2012, Heidelberg, Germany, 2 - 06 September 2012

- XXXVI. **SYSTEM IDENTIFICATION AND CONTROLLER DEVELOPMENT FOR A SMALL TURBOJET ENGINE**
Ekinci S., KUTAY A. T., UZOL O., Yiğittürk M.
6th Ankara International Aerospace Conference, Turkey, 14 - 16 September 2011
- XXXVII. **Mathematical Modeling of the NOTAR Anti-Torque System for Flight Simulation**
YAVRUCUK İ., UZOL O.
66th AHS Annual Forum, 11 - 13 May 2010
- XXXVIII. **Effect of steady and transient wind shear on the wake structure and performance of a horizontal axis wind turbine rotor**
Sezer Uzol N., Uzol O.
47th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, Orlando, FL, United States Of America, 5 - 08 January 2009
- XXXIX. **Site Specific Cost Effective Design Optimization of A Horizontal Axis Wind Turbine**
Sağol E., Sezer Uzol N., Uzol O.
NUYEK 2009, Nuclear & Renewable Energy Sources with International Participation, Ankara, Turkey, 28 - 29 September 2009
- XL. **Optimization of Horizontal Axis Wind Turbines by using BEM Theory and Genetic Algorithm**
Türkal M., Novikov Y., Üşenmez S., SEZER UZOL N., UZOL O., SARIASLAN F.
5th Ankara International Aerospace Conference, Ankara, Turkey, 17 - 19 August 2009
- XLI. **A robust design optimization of a mixed-flow compressor impeller**
Çevik M., UZOL O., YAVRUCUK İ.
ASME Turbo Expo 2009: Power for Land, Sea, and Air, 8 - 12 June 2009
- XLII. **Simulation of the Transient Response of a Helicopter Turboshift Engine to Hot-Gas Ingestion**
UZOL O., YAVRUCUK İ.
ASME Turbo Expo 2008, 9 - 13 June 2008
- XLIII. **"Sürü Halinde Uçan Mikro Hava Araçları için Akışkanlar Mekaniği Tabanlı Güzergah Belirleme Yöntemi**
UZOL O., YAVRUCUK İ.
TOK, Turkey, 5 - 07 September 2007
- XLIV. **Panel Method-Based Motion Planning for Swarming MAVs with Probabilistic Target Tracking**
YAVRUCUK İ., UZOL O.
AIAA Guidance, Navigation and Control Conference and Exhibit, Hilton Head, South Carolina, 20 - 23 August 2007
- XLV. **Investigation of unsteady wake-separated boundary layer interaction using particle-image-velocimetry**
Uzol O., Zhang X. F., Cranstone A., Hodson H.
52nd ASME Turbo Expo 2007, Montreal, Canada, 14 - 17 May 2007, pp.1791-1803
- XLVI. **Structure of turbulence within a sheared wake of a rotor blade**
Soranna F., Chow Y. C., UZOL O., Katz J.
2nd Jt.U.S.-European Fluids Eng.Summer Meeting, 17 - 21 July 2006
- XLVII. **Ulusal İnsansız Muharip Hava Aracı (Imha) İhtiyacında Etkin Sistem Tasarımı ve İtki Alt Sisteminin Değerlendirilmesi**
YAVRUCUK İ., UZOL O.
SAVTEK 2006, Turkey, 29 - 30 June 2006
- XLVIII. **3D structure of a rotor wake at mid span and tip regions**
UZOL O., chow y., soranna f., katz j.
34th AIAA Fluid Dynamics Conference and Exhibit, 28 June - 01 July 2004
- XLIX. **Experimental study of the structure of a rotor wake in a complex turbomachinery flow**
Chow Y. C., UZOL O., Katz J., Meneveau C.
ASME/JSME 2003 4th Joint Fluids Summer Engineering Conference, 6 - 10 July 2003
- L. **Experimental investigation of unsteady flow field within a two stage axial turbomachine using particle image velocimetry**
UZOL O., chow y., katz j., meneveau c.

ASME Turbo Expo 2002: Power for Land, Sea, and Air, 3 - 06 June 2002

- LI. **The effect of sample size turbulence intensity and the velocity field on the experimental accuracy of ensemble averaged PIV measurements**

UZOL O., camcı c.

4th International Symposium on Particle Image Velocimetry, Goettingen, Germany, 17 - 19 September 2001

- LII. **Elliptical Pin Fins as an Alternative to Circular Pin Fins for Gas Turbine Blade Cooling Applications Part 2 Wake Flow Field Measurements and Visualization Using Particle Image Velocimetry**

UZOL O., camcı c.

ASME Turbo Expo 2001: Power for Land, Sea, and Air, 4 - 07 June 2001

- LIII. **Elliptical Pin Fins as an Alternative to Circular Pin Fins for Gas Turbine Blade Cooling Applications Part 1 Endwall Heat Transfer and Total Pressure Loss Characteristics**

UZOL O., camcı c.

ASME Turbo Expo 2001: Power for Land, Sea, and Air, 4 - 07 June 2001

Supported Projects

UZOL O., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Rüzgar Enerjisi Teknolojileri Ar-Ge Merkezi (RÜZGEM), 2011 - Continues

Özgen S., Uzol O., Körpe D. S., TUBITAK Project, Atmosferik Buzlanma Koşullarında Rüzgâr Türbinlerinin Güç Üretimlerinin Eniyilemesi, 2022 - 2025

Uzol O., Project Supported by Other Private Institutions, Rotor pallerinde uc girdabi kontrolu ve rotor yuklerine etkisi, 2015 - 2018

UZOL O., TUBITAK Project, Yatay Eksenli Rüzgar Türbinlerinde Uç Enjeksiyonu Kullanılarak Aktif Uç Girdabı Kontrolü Yönteminin Deneysel İncelenmesi, 2012 - 2015

UZOL O., TUBITAK Project, Uzun Açıklıklı Köprü Kesitlerinin Rüzgar Altındaki Davranışının Analitik Ve Deneysel İncelenmesi, 2011 - 2012

UZOL O., TUBITAK Project, Veter-Boyunca-Modüle-Edilen Vurumlu Uç Enjeksiyonu Yönteminin Uç Girdabı Aerodinamiği Ve Kontrolüne Etkisinin Deneysel İncelenmesi, 2008 - 2011

UZOL O., Project Supported by Higher Education Institutions, Köprülerde Rüzgar Etkilerinin İncelenmesi, 2010 - 2010

Scientific Refereeing

AEROSPACE SCIENCE AND TECHNOLOGY, SCI Journal, October 2021

6. İzmir Rüzgar Enerjisi Sempozyumu, Conference Paper (Full Text), September 2021

JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, SCI Journal, January 2021

ISI BİLİMİ VE TEKNİĞİ DERGİSİ, National Scientific Refreed Journal, October 2020

Technopark, Middle East Technical University, Turkey, October 2020

JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, SCI Journal, June 2020

AIAA JOURNAL, SCI Journal, April 2020

Metrics

Publication: 83

Citation (WoS): 190

Citation (Scopus): 273

H-Index (WoS): 8

H-Index (Scopus): 9

Non Academic Experience

METU

METU

Johns Hopkins University

Pennsylvania State University

METU