

Tahir YAVUZ
Baskent University
Department of Mechanical Engineering,
Ankara, TURKEY

Phone : National Ankara (0312) 2566665
(0532) 396 08 95

PERSONEL

Born : 5 May 1950 in Trabzon, Turkey.
Natinality : Turkish Citizen
Family : Married, 2 children.

EDUCATION AND QUALIFICATIONS

Universities : Technical University of Karadeniz, Trabzon, Turkey. B .Sc. degree at the Mechanical Engineering, 1974.

Univertsity of Leicester, Leicester, England. : Ph.D. degree in Aeronautical Engineering.

Thesis title : Aerodynamics of Parachute and Like Bodies in Unsteady Motion, 1982.

Danışman: Dr. David Cockrell

EMPLOYMENT :

| | |
|------------|--|
| 1974- 1976 | Control Engineer of machine of 10th Province of the Highway(TCK), Trabzon, Turkey. |
| 1977-1978 | Specialist Engineer at the Department of Mechanical Engineering, Technical University of Karadeniz, Trabzon, Turkey, Conserning Heat transfer, Thermodynamics and Fluid Mechanics. |
| 1978-1982 | Ph.D. Student at the department of Engineering, University of Leicester, England. Field of research ; Dynamics of Bluff Bodies in Unsteady Viscous Flow. |
| 1982-1985 | Assis. Assoc. Prof. Department of Engineering, Erciyes University, Kayseri, Trabzon. |
| 1985-1988. | Assoc. Prof., Department of Engineering, Erciyes University, Kayseri, Turkey. |
| 1988-1991 | Assoc. Prof. Department of Mechnaical Engineering, Karadeniz Technical University, Trabzon, Turkey. |
| 1991-2007 | Prof. Dr. Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey. |
| 2007- | Prof. Dr. Department of Mechanical Enginnering, Başkent University, |

Ankara, TURKEY

ADMINISTRATIVE APPOINTMENTS :

| | |
|------------|---|
| 1983-1987 | Head of Department of Mechanical Engineering and Deputy Dean of the Faculty of Engineering, Erciyes University, Kayseri, Trabzon. |
| 1989-1990 | Deputy Head of Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey. |
| 1992-1996 | Head of the Department of Foreign Languages, Karadeniz Technical University, Trabzon, Turkey. |
| 1994-1996 | Director of the vocational School of Beşikdüzü, Karadeniz Technical University, Trabzon. |
| 1996-1999 | Director of the Vocational School of Trabzon, Karadeniz Technical University, Trabzon. |
| 2004-2007 | Head of Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey |
| 2012-2014 | Deputy Dean of Faculty of Engineering, Baskent University, Ankara, Turkey. |
| 2014- 2022 | Head of Department of Mechanical Engineering, Baskent University, Ankara, Turkey. |

RESEARCH FIELDS :

Mean Reserach Areas : Bluff Body Aerodynamics in Unsteady Motion and Related Areas.
Vortex Dynamics, Boundary Layer Development. Renewable Energies.

Other Research Field : Fluid Mechanics, Heat Transfer, Thermodynamics and Related Areas.
Pnomatic Transport, Biomechanics

SCHOLAR

Honoraray Research Association- by Ministary of Defence of England.----- 1986

Research Associate by British Council-----1989

FULBRIGHT Scholar by U.S. Environmental Protection Agency----- 1991

Research Associate by Natick Army Research Center, USA-----1996

RESEARCH ACTIVITIES ABROAD

01 August-01 November 1984 and 15 August - 15 November 1986 : Honorary Research Associate at the Department of Engineering in **the Leicester University** , England, sponsored bu Ministary of Defense of Britain and by Technical and Scientific Research Council of Turkey.
Concerning bluff body aerodynamics and boundary layer developments.

01 August - 21 September 1989 ; Research Associate at **the Nottingham Polytechnics**, sponsored by British Council.
Concerning heat transfer in the jet-impinging problems using liquid-crystal techniques.

01 October 1990 - 01 February 1991 ; FULBRIGHT scholar at the Department of Aeronatic and Mechanic , **University of Minnesota**, Minneoplolis, USA.
Concerning vortex shedding problems around bluff bodies.

01 Februvery - 01 June 1991 ; FULBRIGHT Scholar at the Department of Engineering, **Texas Tech University**, Lubbock, USA.
Concerning wake-recontact problems around parachute-store systems.

01 August - 01 October 1996 ; **Natick Army Research Center**, Boston and **University of Minnesota**, Minneapolis, USA.
Concerning wake-recontact problems about the ram-air parachute canopies.

TEACHING EXPERIENCES :

Undergraduate Level : Dynamics, Engineering Mechanics, Fluid Mechanics, Heat Transfer, Thermodynamics, Gas Dynamics, Machine Dynamics.
Aerodynamics, Numerical Analysis.

Graduate Level : Advanced Fluid Mechanics, Boundary Layer Theory, Heat Conduction, Convection, Engineering Matchematics. Advanced Gas Dynamics, Advanced Aerodynamics, Wind Turbines, Wake Energies.

Supervisor: 26 MSc and 7 PhD Thesis

Yönettiği Lisansüstü Çalışmaları;

Yüksek Lisans:

1. Suat Canbazoğlu , "Yarım Küresel Modellere Daimi Olmayan Harekette Etkiyen Direnç Kuvvetlerinin Analizi" , Fen Bilimleri Enstitüsü, Erciyes Üniversitesi, 1985, Kayseri.
2. Serpil Özkılıç, "Vorteks Metoduyla Paraşut Kanopisi Etrafında Akış Analizi", Fen Bilimleri Enstitüsü, Erciyes Üniversitesi, 1986, Kayseri.
3. Ahmet Doyran : Paraşut Aerodinamiği ve Endüstriyel Amaçlı Düşük Türbülanslı Rüzgar Tüneli Dizaynı, Fen Bilimleri Enstitüsü, Erciyes Üniversitesi, 1984, Kayseri.
4. Rüzgar Türbini Dizaynı. Fen Bilimleri Enstitüsü, Erciyes Üniversitesi, 1986, Kayseri.

5. H.Emin Öktem ; Basınç Gradyantlı Sınır Tabaka Akımı Gelişimi ve Hesaplanması, Fen Bilimleri Enstitüsü, Karadeniz Teknik Üniversitesi,1994, Trabzon.
6. Hülya Çolak ; Vortisite -Akım Fonksiyonu Metodu ile Giriş Akım Karakteristiklerinin Hesabı, Fen Bilimleri Enstitüsü, Karadeniz Teknik Üniversitesi, Trabzon, 1995.
7. Kemal Kuvvet ;Halka Geometrilili Akışta Sıvı Kristal Yöntemiyle Isı Transferinin İncelenmesi, Fen Bilimleri Enstitüsü, Karadeniz Teknik Üniv., 1995, Trabzon.
8. Y. Erkan Akansu ; Değişken Kesitli Halka Akımında Isı Transferi Karakteristiklerinin İncelenmesi, Fen Bilimleri Enstitüsü, Karadeniz Teknik Üniv. 1998, Trabzon.
9. Fatmanur Pehlivan; Basınç Gradyantlı Halka Akımında Akım ve Isı Transferi Karakteristiklerinin Nümerik Analiz, FBE,KTÜ, 2003,Trabzon.
10. Ebru Öztekin; Pnömatik Taşıma ve Taşıma karakteristikleri, ,FBE,KTÜ,2003,Trabzon.
11. Çağrı Cengiz, “ Slatlı kanat profilinin etrafındaki düşük Re sayılı hava ve su akışlarının incelenmesi ve aerodinamik performans analiz”, FBE, Başkent Üniversitesi, 2010, Ankara.
12. H. T. Derya,” İkili kanat profilinin etrafındaki düşük Re sayılı hava ve su akışlarının incelenmesi ve aerodinamik performans analizleri” FBE, başkent Üniversitesi, 2010, Ankara.
13. E. Koç,” İkili kanat Profiline sahip Su Türbininin Üç Boyutlu Sayısal ve deneysel Performans Analizleri”, Başkent Üniversitesi, FBE, 2012.
14. A. Dogan “ Çanakkale İlinde Müstakil bir ev için rüzgar ve Güneş enerjisinden oluşan iki farklı hibrit sistemlerinön tasarımlarının oluşturulması ve karşılaştırmalı maliyet hesaplamaları”, Başkent Üniversitesi, FBE, 2013.
15. K. Değer,”Pompalı Hidroelektrik santraller ve Rüzgar Enerjisi Santralleri Melez Sistemler”, Başkent Üniversitesi, FBE, 2013.
16. T. Ozar,” Isı Borulu Radyatör Tasarım ve Analizi”, Başkent Üniversitesi, FBE, 2013.
17. O. TEZCAN, Ege Bölgesi Rüzgar Potansiyelinin Deneysel Olarak Belirlenmesi ve Rüzgar Potansiyelinin Ekonomik Analizi, Başkent Üniversitesi, FBE, 2014.
18. O. Kıymaz, Rüzgar santrallerinin elektrik sistemine entegrasyonu ve melez rüzgar santrallerinin ekonomik analizi, Başkent Üniversitesi, FBE, 2015.
19. B. Yılmaz, Hastahanelerde enerji kullanımında verimlilik için güneş ve rüzgar destekli havalandırma sistemlerinin enerji ve maliyet etkinliğinin incelenmesi, Dönem projesi, Başkent Üniversitesi, FBE, 2016.
20. B. Kaynak, Otobüslerde pnömatik sistemlerin ölçümü, kontrolü ve değerlendirilmesi, Başkent Üniversitesi, FBE, 2016,
21. Deniz Sarper Semerci, Kesikköprü Hidroelektrik Santrali Model Türbin Tasarımı ve Performans iyileştirme Analizi, Başkent Üniversitesi, FBE, Ağustos,2016.
22. Ali Serdar Gültekin, Güneş Enerjisi ile Çalışabilecek Rigid Hava

- Gemilerinin kavramsal Tasarımı, Başkent Üniversitesi FBE, Mayıs 2017.
23. Yalım Gültekin, Profil Değiştirebilen Rüzgar Türbin Kanadı Tasarımı, Başkent Üniversitesi, FBE, Haziran 2020
 24. Turgut Şaşmaz, Tek etkili absorpsiyonlu bir soğutma sisteminde ilave bir ısı değiştirici eklenmesinin etkiler; Termodinamik Analiz, başkent Üniversitesi, FBE, Ağustos 2021.
 25. Kağan Erdoğan, İstanbul ili çatalca ilçesinde kurulması planlanan rüzgâr enerji santrali için rüzgar ölçüm analizi, kurulum maliyeti ve geri ödeme süresinin belirlenmesi, Dönem Projesi, Başkent Üniversitesi, FBE, mayıs 2021.
 26. Barış Karadağ, Bir Konut İçin Bütünleşik Hibrit Sistem Analizi, Dönem Projesi, başkent Üniversitesi, FBE, Mayıs 2021.

Doktora :

1. Serpil Özkılıç, " Küçük Yüzey Prüz Elemanları ve Sınır Tabaka Gelişiminin Lag-Entrainment Yöntemi İle İncelenmesi", Fen Bilimleri Enstitüsü, Erciyes Üniversitesi, 1989, Kayseri.
2. Kadir Bilen , " Isıtılan Düzlem Bir Plakaya Dik ve Eğik Hava Jeti Çarpmasında Isı Transferi Karakteristiklerinin Deneysel İncelenmesi", Fen Bilimleri Enstitüsü, Karadeniz Teknik Üniversitesi, 1994, Trabzon.
3. Mustafa Sarıoğlu, " Küt Cisimler Aerodinamiği ve Vorteks _Shedding Olayının Deneysel İncelenmesi", Fen Bilimleri Enstitüsü, Karadeniz Teknik Üniversitesi, 1997, Trabzon
4. Kemal Kuvvet ' Kanatçıklı Halka Akımında Akım ve Isı Transferi Karakteristiklerinin İncelenmesi', 2002, Trabzon.
5. Y. Erkan Akansu ' Ardışık Küt Cisimler Etrafında Vorteks Kopmalarının Deneysel Analizi',FBE,KTÜ,2004,Trabzon.
6. Emre Koç, Küçük Ölçekli Rüzgar ve Hidrokinetik Enerjisi Türbinleri için Türbin-kanal Tasarımı Optimizasyonu ve Sistem Performansı Analizi, Başkent Üniversitesi, FBE, Haziran 2020.
7. Deniz Sarper Semerci, Francis türbinleri için bir vorteks önleyici bileşen tasarımı ve türbin performansının incelenmesi, Başkent Üniversitesi, FBE, Eylül 2022.

Projects;

1. **DESIGN OF AN ADAPTIVE, FREE-FLOW HYDRO-KINETIC ENERGY DRIVEN TURBINE MODEL FOR ELECTRIC POWER GENERATION**, PROJE NO: 109M419, 15/04/2010-15/04/2012
2. **MAN-PNEUMATIC: ANALYSIS, MEASUREMENT, CONTROL AND EVALUATION OF PNEUMATIC SYSTEMS IN AUTOMOBILE** ,San-Tez Project: No: 01111.STZ.2011, 01 March-2012-31 August 2013.

Kongre Düzenleme

Cairman of the 24th Congress on Thermal Science and Technology with International Participation (ULIBTK'23),
06-08 September 2023 Patalya Thermal Resort Hotel Kızılcahamam, Ankara - Türkiye

Publication list:

- A1. **Yavuz T.** "The equations of motion for a parachute system descending through a real fluid", The Aeronautical Journal, Volume 89, Number 889, November 1985.
- A2. **Yavuz T.** "Effects of changes in physical parameters on the stability characteristics of parachutes descending through real fluids", The Aeronautical Journal, Volume 89, Number 889, November 1985.
- A3. **Yavuz T.** "Determinating and Accounting for a Parachute Virtual Mass", Journal of Aircraft, Vol. 26, No:51, 1989.
- A4 .Yavuz T.** "Performance Prediction Analysis for Fully-Deployed Parachute Canopies", Journal of Aircraft, Vol. 25, No. 11, 1988.
- A5. **Yavuz T.** and Ozkılıç S. "Prediction of the Turbulent Boundary Layer Development by the lag-Entrainment Method", International Journal for Numerical Methods in Fluids, Vol. 15, 1992.
- A6. **Yavuz T.** "Dynamic Analysis of the Wake- Recontact for a Parachute Store System", Journal of Aircraft, Volume 34, Number 5, 1997.
- A7. Yavuz T., "Effect of Turbulence Modellings on Prediction of Flow and Heat Transfer Characteristics for Confined Jet Impingement", Turkish J, of Eng. and Env. Sci., 16, 1992.
- A8. Sarioğlu M and Yavuz T. "Vortex Shedding From Circular and Rectangular Cylinders Placed Horizontally in a Turbulent Flow", Turkish J, of Eng. and Env. Sci, Vol. 24, 2000.
- A9. K. Bilen, K. Bakırcı, S. Yapıcı and **T. Yavuz**, "Heat transfer from a plate impinging swirl jet", I. Journal of Energy Research, Vol. 26, 305-320, 2002.
- A10.** Sarioğlu, M. and **Yavuz T.**, Subcritical Flow Around Bluff Bodies, *AIAA Journal*, Vol. 40, Number 7, 1257-1268, 2002.
- A11.** Akansu, Y.E. Sarioğlu, M., and **Yavuz, T.** Flow Around a Rotatable Circular Cylinder–Plate Body at Subcritical Reynolds Numbers, *AIAA Journal*, Vol. 42-6, 1073-1080, 2004.
- A12. Sarioğlu M., Akansu, Y. E. and **Yavuz T.**, "Control of Flow Around Square Cylinders at Incidence by Using a rod" *AIAA Journal*, Vol. 43, No. 7, 1419-1426, 2005.
- A13. Sarioğlu, M., Akansu, Y.E. and **Yavuz, T.**, "Flow around A Rotatable Square Cylinder-Plate Body", *AIAA Journal*, Vol. 44, No. 5, May 2006.
- A14. Akansu, Y.E., sarioğlu M., Kuvvet K., and Yavuz T., "Flow field and heat transfer characteristics in an oblique slot jet impinging on a flat plate" International Communications in Heat and Mass Transfer, Vol. 35, 873-880, 2008.

A15. Yavuz T, Akansu Y. E. , Sarıoğlu M. and Ozmert M. “ Vortex Shedding on Combined Bodies at Incidence to a Uniform Air Stream” ,International Journal of Aerospace and Mechanical Engineering 5:3 2011.

A16. Yavuz T, Erol O and Kaya M, “Heat transfer characteristics of laminar annular duct flow with viscous dissipation”, Proc. IMechE Part C: J. Mechanical Engineering Science, Vol 225/7, 2011.

17. Kuvvet, K. and yavuz T.” The effect of fin pitch on heat transfer and fluid flow characteristics in the entrance region of a finned concentric passage”, T. Of Thermal Science and Technology, Vo. 31, No:2, 2011

A18. Tahir Yavuz, Birol Kilkis, Emre Koc and Ozgur Erol, “Flow and performance characteristics of a double-blade hydrofoil” *Advanced Materials Research Vols. 433-440 (2012) pp 7218-7222.*

A19. T. Yavuz and E. Koc, 2012. Performance analysis of the double blade airfoils. *Energy Conversion and Management*, Vol.63, 95-100, 2012

A20. T. Yavuz, Emre Koç and Bahadır Kaynak, Hydrodynamics performance of hydrofoil-slat arrangements in 3D analysis, *Energy Conversion and Management*, Vol.75, 44-50, 2013.

A21 Deger K., Kilkis, B. and Yavuz, T. Parametric Analysis of Pumped Storage Hydropower-Coupled Wind Turbine Plants, *Progress in Exergy, Energy, and Environment*, pp: 76-90, Springer International Publishing, Switzerland, 2014.

A22. T.Yavuz, E. Koc, B. Kilkis, O. Erol, C. Balas, T. Aydemir, Performance analysis of the airfoil-slat arrangements for the hydro and wind turbines applications, *Renewable Energy*, Vol. 74, 414-421, 2015.

A23. Emre Koç, Tahir Yavuz, Birol Kilkis, Özgür Erol, Can Balas, Timur Aydemir. Numerical and experimental analysis of the twin blade hydrofoil for hydro and wind turbine applications, *J.of Ocean Engineering*, 2015.

A24.E. Koc, O. Gunel, T. Yavuz, Mini-Scaled Horizontal Axis Wind Turbine Analysis By Qblade And CFD, *International Journal of Energy Applications and Technology*, Vol: 3, 87-92, 2016

A25.O. Gunel, E. Koc, T. Yavuz, Comparison of CFD and XFOIL Airfoil Analyses for Low Reynolds Number, *International Journal of Energy Applications and Technology*, Vol: 3, 83-86, 2016

A26. E. Koç, T. Yavuz, Effect of Flap on the Wind Turbine-Concentrator Combination, *International Journal of Renewable Energy Research*, Vol.2. June 2019.

A27. Kumru Didem Atalay¹, Berna Dengiz¹, Tahir Yavuz^{*2}, Emre Koç², Yusuf Tansel İç¹, Airfoil-Slat Arrangement Model Design for Wind Turbines in Fuzzy Environment, *Neural Computing and Applications* (2020) 32:13931–13939

A28. Semerci D.S., Yavuz T., Controlling Flow in Draft Tube of Francis Turbine by Vortex Preventing Element, *Journal of Electrical Power & Energy Systems*, 2023, 6(1), 34-43

A29. Kutluca O. T., Koç, E. Yavuz T. Synthetic jet application in the wind turbine concentrator design, *Energy Sources, Part A: Recovery , Utilization and Environmental Effects*, 45:2, 5789-5805,

-
- B1. Tahir Yavuz, Emre Koç, Performans Analysis of Double Blades Airfoils, HEFAT2016, 11-13 July 2016, Malaga, Spain.
- B2. Emre Koç, Onur Günel, Tahir Yavuz, Comparison of XFOIL and CFD Airfoil Analyses for Low Reynolds Number, 3rd International Conference on Advanced Technology & Sciences,(ICAT'16), 1-3 Eylül 2016, Konya, Turkey.
- B3. Onur Günel, Emre Koç, Tahir Yavuz, "Mini-Scaled Horizontal Axis Wind Turbine Analysis by Qblade and CFD" 3rd International Conference on Advanced Technology & Sciences,(ICAT'16), 1-3 Eylül 2016, Konya, Turkey.
- B4 Deniz S. Semerci, Tahir Yavuz, "CFD-Based Performance Analyses of a Francis Turbine in Several Guide Vane Positions"3rd International Conference on Advanced Technology & Sciences,(ICAT'16), 1-3 Eylül 2016, Konya, Turkey.
- B5.E. Koc, O. Gunel, T. Yavuz, Comparison of Qblade and CFD Results for Small-Scaled Horizontal Axis Wind Turbine Analysis, The 5th IEEE International Conference on Renewable Energy Research and Applications ICRERA 2016, 20-23 November, Birmingham/ENGLAND.
- B6.O. Gunel, E. Koc, T. Yavuz, CFD vs. XFOIL of Airfoil Analysis at Low Reynolds Numbers, The 5th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2016, 20-23 November Birmingham/ENGLAND.
- B7.E. Koc, O. Gunel, T. Yavuz, Mini-Scaled Horizontal Axis Wind Turbine Analysis by Qblade And CFD, 3rd International Conference on Advanced Technology & Sciences, ICAT 2016, 1-3 Sep., 2016, Konya/TURKEY
- B8.O. Gunel, E. Koc, T. Yavuz, Comparison of CFD and XFOIL Airfoil Analyses for Low Reynolds Number, 3rd International Conference on Advanced Technology & Sciences, ICAT 2016, 1-3 Sep., 2016, Konya/TURKEY
- B9.Semerci D.S., Yavuz T., "CFD-Based Performance Analyses of a Francis Turbine in Several Guide Vane Positions", 3rd International Conference on Advanced Technology & Sciences, ICAT 2016, 1-3 Sep., 2016, Konya/TURKEY
- B10.Semerci D.S., Yavuz T., "Increasing Efficiency of an Existing Francis Turbine by Rehabilitation Process", The 5th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2016, 20-23 November Birmingham / UNITED KINGDOM.
- B11, Kıymaz O, Yavuz T., Wind Power Electrical Systems Integration, Technical and Economic Analysis of Hybrid Wind Power Plants The 5th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2016, 20-23 November Birmingham / UNITED KINGDOM
- B12. Yavuz T, Dogan Alper, Development and Comparative Cost Calculations of Hybrid Systems Containing Wind and Solar Energies for a Detached House, 2nd International Conference on Viable Energy Trends (InVenT-2017) 28-30 April 2017, Helsinki, Finland.
- B13. Yavuz T, Koc E. "Optimization Analysis of the Combinations of Concentrator and Wind Turbine with Flap in CFD", 2nd International Conference on Fluid Dynamics & Aerodynamics October 19-20, 2017 Rome, Italy.

- B14. Yavuz T, Koç E., **Design of the Concentrator –Wind turbine combinations**, 3rd International Conference on Fluid Dynamics & Aerodynamics, 25-26 October 2018, Berlin, Germany
- B15. Koç E, Yavuz T. “Performance Analysis of Concentrator with Flap-Wind Turbine Combinations”, SET2019, August 20 - 22, 2019, Kuala Lumpur, Malaysia
- B16. Gültekin Y, Koç E, Yavuz T. Design of the Deformable Wind Turbine Blade to Keep Efficiency High. 5th International Anatolian Symposium, 24-26 March 2021, Trabzon/Turkey.
- B17. Semerci D. S., Yavuz T. A New Vertx Preventing Element Design for Francis Turbines and Comparison of Different geometric Shapes, 5th International Anatolian Symposium, 24-26 March 2021, Trabzon/Turkey.
- B18. Yavuz T, Şaşmaz T, Absorbsiyonlu soğutma sistemlerinde lityum bromür-su ve amonyak-su çalışma çiftlerinin termodinamik ve ekserji analizleri ile karşılaştırılması, IV. International Ankara Conference on Scientific Research, April 10 -11, 2021 Ankara/Turkey
- B19. Semerci D.S., Yavuz T. Vortex Breakdown in Discharge Cone of the Francis Turbine, II. Interdisciplinary Conference on Mechanics, Computers and Electrics, ICMECE 2022, 06-07 October 2022, Barcelano-SPAIN.
- B20. Tuanna Demir Atılğan, Tahir Yavuz, Olcay Nurtaç Deniz, and Hakan Tiftikçi, “Helicopter blade design and optimization with b-spline, genetic algorithm and blade elements momentum theory”, ULIBTK 2023, 06-08 September 2023, Ankara, Türkiye.
- B21. Koklu E. Yavuz T. “Development of trace particles and seeding of wind tunnel flow at different air velocities”, ULIBTK 2023, 06-08 September 2023, Ankara, Türkiye.