

## Prof. MUHSİN KILIÇ



### Personal Information

**Office Phone:** [+90 224 294 1953](tel:+902242941953)

**Fax Phone:** [+90 224 294 1903](tel:+902242941903)

**Email:** [mkilic@uludag.edu.tr](mailto:mkilic@uludag.edu.tr)

**Web:** <https://avesis.uludag.edu.tr/mkilic>

**Address:** Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü Nilüfer Bursa Türkiye



### International Researcher IDs

ScholarID: 9u0yqscAAAAJ

ORCID: 0000-0003-2113-4510

Publons / Web Of Science ResearcherID: O-2253-2015

ScopusID: 57202677637

Yoksis Researcher ID: 4932

### Education Information

Doctorate, University of Bath, Mechanical Engineering, United Kingdom 1989 - 1993

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Mechanical Engineering (MSc) (Tezli), Turkey 1987 - 1989

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Makine Mühendisliği Bölümü, Turkey 1982 - 1986

### Biography

Muhsin Kılıç is a professor at the department of Mechanical Engineering, Bursa Uludağ University, Bursa, Turkey. He graduated at Uludağ University in 1986. He received his MSc degree in mechanical engineering from the Middle East Technical University in 1989, his PhD degree from the Bath University, UK, in 1993. His research fields include turbo machinery, heat transfer, thermodynamics, CFD, thermal comfort, energy, energy conversion, energy storage, HVAC systems. He has a large number of published articles in the related reputable indexed journals.

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Occupational Health and Safety, İş Sağlığı ve Güvenliği, Bursa Uludağ Üniversitesi, 2024

### Dissertations

Doctorate, Flow Between Contra Rotating Discs, The University of Bath, Engineering Faculty, Mechanical Engineering, 1993

Postgraduate, Finite element analysis of stoves, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, 1989

## Research Areas

Environmental Engineering, Mechanical Engineering, Energy, Thermodynamics, Interdisciplinary Physics and Related Science and Technology Areas, Electromagnetism, Acoustics, Heat Transfer, Classical Mechanics and Fluid Dynamics, Thermodynamics, Fuel Cells, Engineering and Technology

## Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2002 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 1996 - 2002

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 1994 - 1996

## Academic and Administrative Experience

Academic Performance D. Board Member, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2019 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2016 - Continues

Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2016 - Continues

Rector's Advisor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2011 - 2015

Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2002 - 2014

Member of the Senate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2009 - 2012

Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2005 - 2010

Fakülte Kurulu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2002 - 2010

Fakülte Yönetim Kurulu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2003 - 2009

Deputy Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 1997 - 2005

## Courses

Heat Transfer, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Combined Heat and Power Systems, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Doktora Uzmanlık Alan Dersi, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Thermodynamic Optimization, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Radiation Heat transfer, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

İstatistik, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Energy Management, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Energy Management, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

İstatistik, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Heat Conduction, Postgraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Termik Turbo Makineler, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Y.L. Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Energy Generation Systems, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Isı Transferi, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Enerji Dönüşümleri, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Heat Transfer, Undergraduate, 2020 - 2021

## Advising Theses

Kılıç M., PEM YAKIT HÜCRELİ ARAÇLARDA TERMAL VE SU YÖNETİM SİSTEMLERİNİN TEORİK VE NÜMERİK İNCELENMESİ, Postgraduate, Y.EMRE(Student), 2023  
Kılıç M., OPTIMIZATION AND COMPARISON OF THE LIQUID COOLING PLATE USED IN THE ELECTRIC VEHICLE BATTERY WITH DIFFERENT COOLANTS AS WATER AND ETHYLENE GLYCOL-WATER SOLUTIONS, Postgraduate, Z.NİHAN(Student), 2023  
Kılıç M., Ambulans kabinindeki hava koşullarının sayısal ve deneysel olarak incelenmesi, Postgraduate, C.YURDAKUL(Student), 2023  
Kılıç M., Elektrikli araçlarda ısıtma ve soğutma durumlarında enerji yönetimi, Postgraduate, B.UÇAN(Student), 2022  
Kılıç M., Aerodinamik kanatlı radyal fan tasarımı ve sayısal analizi, Postgraduate, S.FİDAN(Student), 2022  
Kılıç M., ORGANİK RANKINE ÇEVİRİMİNİN TERMODİNAMİK ANALİZİ VE TERMOEKONOMİK OPTİMİZASYONU, Doctorate, E.ÖZDEMİR(Student), 2022  
Kılıç M., A NOVEL PARAMETRIC PERFORMANCE ANALYSIS OF HYBRID REFRIGERATION CYCLES WITH MECHANICAL AND ADSORPTION COMPRESSION, Doctorate, M.ANJRINI(Student), 2021  
Kılıç M., Klimatik Kontrollü Treyler İçerisindeki Hava Akışının Optimizasyonu, Postgraduate, T.GÜLER(Student), 2021  
Kılıç M., ŞEBEKEDEN BAĞIMSIZ, GÜNEŞ VE RÜZGAR KAYNAKLI, BATARYA VE HİDROJEN DEPOLAMALI HİBRİT ENERJİ SİSTEMLERİNİN DİNAMİK MODELLEMESİ, ENERJİ, EKSERJİ VE SEVİYELENDİRİLMİŞ MALİYET ANALİZİ, Doctorate, A.FİDAN(Student), 2021  
Kılıç M., Bir portatif hava temizleme cihazının performansının incelenmesi, Postgraduate, İ.HAKKI(Student), 2021  
Kılıç M., Innovative cooling applications on automotive exterior lighting groups, Doctorate, M.AKTAŞ(Student), 2020  
Kılıç M., Performance analysis of electronic components cooling with liquid flow in mini channel block application, Postgraduate, S.ŞENTÜRK(Student), 2020  
Kılıç M., The effect of material damaged traffic accidents of motor land vehicles on country economy, Postgraduate, R.KARAOĞLU(Student), 2019  
Kılıç M., Improvement of thermo-mechanical properties of the clutch systems used in the vehicles, Doctorate, T.ÇAKMAK(Student), 2018  
KILIÇ M., Determination of the adsorption characteristics of different refrigerants on different adsorbents for adsorption heat pump applications, Doctorate, E.GÖNÜL(Student), 2017  
Kılıç M., Design and construction of an optimum li-br-water absorption refrigeration machine for air conditioning, Doctorate, H.BASRI(Student), 2017  
KILIÇ M., A comparative review of national and international green building assessment schemes based on energy performance, Postgraduate, A.FİDAN(Student), 2016  
KARA A., KILIÇ M., Determination of physicochemical parameters of the gas adsorption with alternative materials in the adsorption heat pump system, Postgraduate, N.DİNİBÜTÜN(Student), 2016  
KILIÇ M., Compressed air energy storage, Doctorate, M.MUTLU(Student), 2015  
KILIÇ M., Heat transfer analysis of automotive headlamp systems, Postgraduate, H.EMRE(Student), 2014  
KILIÇ M., Analysis and design of concentrated solar power components, Postgraduate, H.İZZETTİN(Student), 2014  
KILIÇ M., Development of a new generation panel radiator for the low inlet water temperatures, Postgraduate, S.AYDIN(Student), 2013  
KILIÇ M., Dynamic modelling and design of a compressor with liquid piston, Postgraduate, F.ÖZCAN(Student), 2013

KILIÇ M., Long term energy production and consumption projections and evaluations for Turkey, Postgraduate, E.ÖZDEMİR(Student), 2013

KILIÇ M., Pressurized air dryer heat recovery unit heat exchanger design and cfd analysis, Postgraduate, A.BURCU(Student), 2013

KILIÇ M., Structural design and prototype production of a CNC controlled large-scale milling machine with moving portal, Postgraduate, E.GÖNÜL(Student), 2012

KILIÇ M., Investigation of the thermal parameters and indoor air quality changes in an automobile cabin by experimental measurements, Doctorate, M.ÖZGÜN(Student), 2010

KILIÇ M., Three dimensional numerical analysis of velocity and temperature distribution in an automobile cabin, Doctorate, G.SEVİLGİN(Student), 2010

KILIÇ M., Design and application of stress removal oven with infrared lamp, Postgraduate, M.MUTLU(Student), 2009

KILIÇ M., Simulation of radiative heat transfer in enclosed volumes, Postgraduate, F.KAYNAKLI(Student), 2009

KILIÇ M., Investigating thermal comfort in an automobile compartment at different environmental conditions, Postgraduate, Ş.MELİH(Student), 2008

KILIÇ M., Simulation of a micro gas turbine cycle and optimization of the system components, Postgraduate, T.ÇAKMAK(Student), 2007

KILIÇ M., The evaluation of energy and fuel consumption of buildings in Bursa by degree day method, Postgraduate, S.SEVİNÇ(Student), 2006

KILIÇ M., Investigation of heat and mass transfer in wafer and chocolate manufacturing, Postgraduate, Y.ALTAY(Student), 2005

KILIÇ M., Finite time thermodynamic analysis of thermal systems in a combined power plant, Postgraduate, M.ÖZGÜN(Student), 2005

KILIÇ M., Thermodynamic analysis of a natural gas power plant as to meteorological conditions, Doctorate, Ü.ÜNVER(Student), 2004

KILIÇ M., Investigation of smoke movements and smoke holes in fires, Postgraduate, C.TANRISEVEN(Student), 2001

KILIÇ M., Computer simulation of heat and mass transfer in forced and free convection, Postgraduate, Ü.ÜNVER(Student), 2000

KILIÇ M., Doğal ve zorlanmış taşınım ile ısı ve kütle transferinin bilgisayar simülasyonu, Postgraduate, Ü.ÜNVER(Student), 2000

## **Jury Memberships**

Post Graduate, Post Graduate, Bursa Uludağ Üniversitesi, July, 2023

Post Graduate, Post Graduate, Bursa Uludağ Üniversitesi, July, 2023

Doctorate, Doctorate, Kocaeli Üniversitesi, May, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Bursa Uludağ Üniversitesi, October, 2022

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, May, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Bursa Uludağ Üniversitesi, September, 2021

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, August, 2021

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, May, 2021

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ University, March, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, January, 2021

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, September, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bursa Uludağ Üniversitesi, May, 2020

Associate Professor Exam, Associate Professor Exam, Adana Bilim Ve Teknoloji Üniversitesi, February, 2020

Associate Professor Exam, Associate Professor Exam, Adana Bilim Ve Teknoloji Üniversitesi, July, 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effect of Energy Management in Heating–Cooling Systems of Electric Vehicles on Charging and Range**  
Kılıç M., Korukçu M. Ö.  
APPLIED SCIENCES BASEL, vol.14, no.15, pp.1-19, 2024 (SCI-Expanded)
- II. **Comprehensive Thermodynamic Performance Evaluation of Various Gas Liquefaction Cycles for Cryogenic Energy Storage**  
Kılıç M., Altun A. F.  
SUSTAINABILITY, no.24, 2023 (SCI-Expanded)
- III. **Experimental and Numerical Investigations on the Thermal Performance of Three Different Cold Plates Designed for the Electrical Vehicle Battery Module**  
Sevilgen G., Dursun H., Kılıç M.  
SUSTAINABILITY, vol.15, no.19, 2023 (SCI-Expanded)
- IV. **Experimental and Numerical Investigations on the Thermal Performance of Three Different Cold Plates Designed for the Electrical Vehicle Battery Module**  
Sevilgen G., Dursun H., Kılıç M.  
SUSTAINABILITY, vol.15, no.19, pp.1-21, 2023 (SCI-Expanded)
- V. **Comparative Evaluation and Multi-Objective Optimization of Cold Plate Designed for the Lithium-Ion Battery Pack of an Electrical Pickup by Using Taguchi-Grey Relational Analysis**  
KILIÇ M., Gamsız S., Alınca Z. N.  
SUSTAINABILITY, vol.15, no.16, 2023 (SCI-Expanded)
- VI. **Dynamic modelling and multi-objective optimization of off-grid hybrid energy systems by using battery or hydrogen storage for different climates**  
Kılıç M., Altun A. F.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.60, no.48, pp.22834-22854, 2023 (SCI-Expanded)
- VII. **The Investigation of the innovative Hybrid Heat Pump System Designed and Prototyped for Heating Process of Electric Vehicles**  
Sevilgen G., Kiliç M., Bayram H., Başak E., Dursun H.  
AEJ - ALEXANDRIA ENGINEERING JOURNAL, vol.68, pp.417-435, 2023 (SCI-Expanded)
- VIII. **Exergoeconomic and Exergetic Sustainability Analysis of a Combined Dual-Pressure Organic Rankine Cycle and Vapor Compression Refrigeration Cycle**  
Özdemir Küçük E., Kılıç M.  
SUSTAINABILITY, vol.15, no.8, 2023 (SCI-Expanded)
- IX. **Exergoeconomic analysis and multi-objective optimization of ORC configurations via Taguchi-Grey Relational Methods**  
Özdemir Küçük E., Kılıç M.  
Heliyon, vol.9, no.4, 2023 (SCI-Expanded)
- X. **Evaluation of Combined Thermal–Mechanical Compression Systems: A Review for Energy Efficient Sustainable Cooling**  
Kilic M.  
SUSTAINABILITY, vol.14, no.21, pp.13724, 2022 (SCI-Expanded)
- XI. **Numerical Simulation and Analytical Evaluation of the Collection Efficiency of the Particles in a Gas by the Wire-Plate Electrostatic Precipitators**  
Kilic M., Mutlu M., Altun A. F.  
APPLIED SCIENCES, vol.12, no.6401, pp.1-19, 2022 (SCI-Expanded)
- XII. **NOVEL AIR DUCT COOLING PERFORMANCE EVALUATION FOR THE REFRIGERATED PRODUCT TRANSPORT IN A SEMI-TRAILER CABIN**

- KILIÇ M., Guler T., SEVİLGEN G.  
HEAT TRANSFER RESEARCH, vol.53, no.5, pp.17-30, 2022 (SCI-Expanded)
- XIII. **A novel design of a dry clutch pressure plate for weight reduction without compromising its thermo-mechanical performance**  
Kilic M., Cakmak T.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.89, no.3/4, pp.175-191, 2022 (SCI-Expanded)
- XIV. **Numerical investigation of an air cleaning device performance**  
Kılıç M., Mutlu M., Saldamli I. H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.4, pp.2077-2089, 2022 (SCI-Expanded)
- XV. **Comparative performance evaluation of the mechanical and adsorption hybrid cooling systems for the cascaded and the serial connected evaporators configurations**  
Kılıç M., Anjrini M.  
CASE STUDIES IN THERMAL ENGINEERING, vol.28, 2021 (SCI-Expanded)
- XVI. **Dual-separated cooling channel performance evaluation for high-power led Pcb in automotive headlight**  
Sevilgen G., Kılıç M., Aktas M.  
CASE STUDIES IN THERMAL ENGINEERING, vol.25, 2021 (SCI-Expanded)
- XVII. **Comparative performance analysis of ORC-VCRC combined systems based on refrigerant selection**  
Özdemir Küçük E., Kılıç M.  
SCIENCE AND TECHNOLOGY FOR THE BUILT ENVIRONMENT, vol.27, no.1, pp.70-84, 2021 (SCI-Expanded)
- XVIII. **THE 1-D ANALYSIS OF COOL DOWN SIMULATION OF VEHICLE HVAC SYSTEM**  
Sevilgen G., Bayram H., Kilic M.  
THERMAL SCIENCE, vol.25, no.3, pp.1677-1687, 2021 (SCI-Expanded)
- XIX. **Investigation of Thermal Sensation in a Railway Vehicle during Cooling Period**  
Sevilgen G., Sayaral G., Kılıç M., Bayram H.  
TRANSPORTATION RESEARCH RECORD, vol.2674, no.10, pp.461-474, 2020 (SCI-Expanded)
- XX. **Comparative performance analysis of a combined cooling system with mechanical and adsorption cycles**  
Kılıç M., Anjrini M.  
ENERGY CONVERSION AND MANAGEMENT, vol.221, 2020 (SCI-Expanded)
- XXI. **Design and performance evaluation based on economics and environmental impact of a PV-wind-diesel and battery standalone power system for various climates in Turkey**  
Altun A. F., Kılıç M.  
RENEWABLE ENERGY, vol.157, pp.424-443, 2020 (SCI-Expanded)
- XXII. **Economic feasibility analysis with the parametric dynamic simulation of a single effect solar absorption cooling system for various climatic regions in Turkey**  
Altun A. F., Kılıç M.  
Renewable Energy, vol.152, pp.75-93, 2020 (SCI-Expanded)
- XXIII. **Thermodynamic performance evaluation of a geothermal ORC power plant**  
Altun A. F., Kılıç M.  
Renewable Energy, vol.148, pp.261-274, 2020 (SCI-Expanded)
- XXIV. **Thermal Assessment of Laminar Flow Liquid Cooling Blocks for LED Circuit Boards Used in Automotive Headlight Assemblies**  
Kılıç M., Aktas M., Sevilgen G.  
ENERGIES, vol.13, 2020 (SCI-Expanded)
- XXV. **Estimation of friction surface temperature of a dry clutch**  
Cakmak T., KILIÇ M.  
INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS, vol.27, no.5, pp.683-702, 2020 (SCI-Expanded)
- XXVI. **A NOVEL METHOD FOR PREDICTION OF GAS TURBINE POWER PRODUCTION Degree-Day Method**  
Ünver Ü., Kelesoglu A., Kılıç M.

- THERMAL SCIENCE, vol.22, 2018 (SCI-Expanded)
- XXVII. **Influence of environmental temperature on exergetic parameters of a combined cycle power plant**  
Ünver Ü., Kılıç M.  
INTERNATIONAL JOURNAL OF EXERGY, vol.22, pp.73-88, 2017 (SCI-Expanded)
- XXVIII. **THREE-DIMENSIONAL CONJUGATE NUMERICAL ANALYSIS OF FIN AND TUBE HEAT EXCHANGERS WITH VARIOUS FIN THERMAL CONDUCTIVITY VALUES AND GEOMETRIC PARAMETERS**  
Mutlu M., Kılıç M.  
ISI BILIMI VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.36, pp.85-98, 2016 (SCI-Expanded)
- XXIX. **Evaluation of windshield defogging process in an automobile**  
Mutlu M., Sevilgen G., Kılıç M.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.71, pp.103-121, 2016 (SCI-Expanded)
- XXX. **A novel design of a compressed air storage system with liquid pistons**  
Kılıç M., Mutlu M.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, pp.318-324, 2016 (SCI-Expanded)
- XXXI. **Energy and exergy analysis of a double effect LiBr-H<sub>2</sub>O and LiCl-H<sub>2</sub>O chillers**  
Kılıç M., Ravul H. B.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, pp.312-317, 2016 (SCI-Expanded)
- XXXII. **EFFECTS OF PISTON SPEED, COMPRESSION RATIO, AND CYLINDER GEOMETRY ON SYSTEM PERFORMANCE OF A LIQUID PISTON**  
Mutlu M., Kılıç M.  
THERMAL SCIENCE, vol.20, pp.1953-1961, 2016 (SCI-Expanded)
- XXXIII. **Adsorption characteristics evaluation of R134A and R404A on different adsorbents**  
Kılıç M., Gonul E.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, pp.306-311, 2016 (SCI-Expanded)
- XXXIV. **INVESTIGATION OF TRANSIENT COOLING OF AN AUTOMOBILE CABIN WITH A VIRTUAL MANIKIN UNDER SOLAR RADIATION**  
Sevilgen G., Kılıç M.  
THERMAL SCIENCE, vol.17, pp.397-406, 2013 (SCI-Expanded)
- XXXV. **The effective thermal conductivity of insulation materials reinforced with aluminium foil at low temperatures**  
Yuksel N., Avci A., Kılıç M.  
HEAT AND MASS TRANSFER, vol.48, pp.1569-1574, 2012 (SCI-Expanded)
- XXXVI. **Experimental investigation of thermal comfort and air quality in an automobile cabin during the cooling period**  
Kılıç M., Akyol S. M.  
HEAT AND MASS TRANSFER, vol.48, pp.1375-1384, 2012 (SCI-Expanded)
- XXXVII. **The effects of using different type of inlet vents on the thermal characteristics of the automobile cabin and the human body during cooling period**  
Kılıç M., Sevilgen G.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.60, pp.799-809, 2012 (SCI-Expanded)
- XXXVIII. **TRANSIENT EFFECTS OF DIFFERENT HEATING MODES ON TEMPERATURE AND HUMIDITY INSIDE THE AUTOMOBILE CABIN DURING HEATING PERIOD**  
Korukcu M. Ö., KILIÇ M.  
ISI BILIMI VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, no.1, pp.101-107, 2012 (SCI-Expanded)
- XXXIX. **THREE DIMENSIONAL NUMERICAL ANALYSIS OF TEMPERATURE DISTRIBUTION IN AN AUTOMOBILE CABIN**  
SEVİLGEN G., KILIÇ M.  
THERMAL SCIENCE, vol.16, no.1, pp.321-326, 2012 (SCI-Expanded)

- XL. **Transient effects of heater on CO2 emissions in an automobile**  
Özgün Korukçu M., Kılıç M.  
Scientific Research and Essays, vol.6, pp.6465-6474, 2011 (SCI-Expanded)
- XLI. **An experimental investigation on interior thermal conditions and human body temperatures during cooling period in automobile**  
Kılıç M., Kaynaklı Ö.  
HEAT AND MASS TRANSFER, vol.47, pp.407-418, 2011 (SCI-Expanded)
- XLII. **Numerical analysis of air flow, heat transfer, moisture transport and thermal comfort in a room heated by two-panel radiators**  
Sevilgen G., Kılıç M.  
ENERGY AND BUILDINGS, vol.43, pp.137-146, 2011 (SCI-Expanded)
- XLIII. **The temperature dependence of effective thermal conductivity of the samples of glass wool reinforced with aluminium foil**  
Yuksel N., Avci A., Kılıç M.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.37, pp.675-680, 2010 (SCI-Expanded)
- XLIV. **Editorial**  
Oeztuerk F., Kilic M.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, no.1, pp.1-2, 2010 (SCI-Expanded)
- XLV. **Untitled**  
Oeztuerk F., Kılıç M.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.1-4, 2010 (SCI-Expanded)
- XLVI. **Dynamic simulation of HVAC system thermal loads in an automobile compartment**  
Akyol S. M., Kılıç M.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.177-198, 2010 (SCI-Expanded)
- XLVII. **Transient numerical analysis of airflow and heat transfer in a vehicle cabin during heating period**  
Sevilgen G., Kılıç M.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.144-159, 2010 (SCI-Expanded)
- XLVIII. **The usage of IR thermography for the temperature measurements inside an automobile cabin**  
Korukcu M. Ö., Kılıç M.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.36, pp.872-877, 2009 (SCI-Expanded)
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## Supported Projects

Kılıç M., Kaynaklı Ö., TUBITAK Project, Development of a plug-and-play type display cabinet with a closed system cooling cycle using carbon dioxide as the refrigerant, 2024 - 2026

Sevilgen G., Kılıç M., Etemoğlu A. B., Karpat F., Kaya N., Sürmen A., Karamangil M. İ., Kuş A., Çavdur F., Cindoruk S. S., et al., TUBITAK Project, TÜBİTAK 1004 (Mükemmeliyet Merkezi Destek Programı) Elektrikli Taşıtlar İçin Batarya Teknolojileri Araştırma ve Geliştirme Platformu (BATEG), 2022 - 2026

KILIÇ M., KARPAT E., ÇETİN KORUKÇU M., MUTLU M., TÜBİTAK - AB COST Project, İç Ortamlar İçin Taşınabilir Hava

Temizleme Sistemi Tasarımı Ve Prototip İmalatı, 2019 - 2021

Çakmak T., Kılıç M., Sevilgen G., TUBITAK Project, TÜBİTAK 1511 Ağır vasıta araçlar için hafif ve dayanıklı debriyaj döküm plakası geliştirilmesi ve prototip üretimi (Proje Danışmanlığı), 2018 - 2020

Kılıç M., Sevilgen G., Korukçu M. Ö., TUBITAK Project, TÜBİTAK 1505 Otomotiv Led Aydınlatma Ürünleri İçin Yenilikçi Soğutma Sistemi Geliştirilmesi, Tasarımı Ve Prototip İmalatı, 2017 - 2020

Kılıç M., Sevilgen G., Project Supported by Other Official Institutions, DURMAZLAR VAGON KLİMA SİSTEMİNİN ISIL KONFOR KOŞULLARINI SAĞLAMASI İÇİN HAVA DAĞITIM VE TOPLAMA ÜNİTELERİNİN TASARIM İYİLEŞTİRİLMESİ ARAŞTIRMA-GELİŞTİRME PROJESİ, 2018 - 2019

Kılıç M., TUBITAK Project, ABSORPSİYONLU SOĞUTUCU PROTOTİP TASARIMI, 2017 - 2018

Kılıç M., Sevilgen G., Industrial Thesis Project, SANTEZ 0878.STZ-2015 Taşıtlarda Kullanılan Debriyaj Sistemlerinin Thermo-Mekanik Özelliklerinin İyileştirilmesi, 2015 - 2018

KILIÇ M., Project Supported by Higher Education Institutions, Adsorpsiyonlu Soğutucuların Termodinamik Modellenmesi ve Optimizasyonu İçin Yazılım Geliştirme, 2015 - 2017

KILIÇ M., Project Supported by Higher Education Institutions, İş yapan Akışkan Olarak LiBr Su ve LiCl Su Çifti Kullanan Adsorpsiyonlu Soğutma Sistemlerinin Enerji ve Ekserji Analizleri Yapılarak Performanslarının Karşılaştırılması, 2016 - 2016

Sevilgen G., Kılıç M., Project Supported by Higher Education Institutions, BAP Projesi (KUAP OGMYO 2012/75) Otomobillerde Camlar Üzerinde Oluşan Buğunun Hızlı Olarak Giderilmesinde Menfez Geometrisi Hava Hız Nem ve Sıcaklığın Etkisinin HAD Yöntemi İle Analizi, 2012 - 2016

Kılıç M., Project Supported by Higher Education Institutions, Güneş Enerjili Araçlar İçin Yüksek verimli Fırçasız Doğru Akım Motor Uygulamaları, 2013 - 2015

Kılıç M., Kara A., TÜBİTAK - AB COST Project, Determination of adsorption characteristics of different types of refrigerants used in adsorption heat pumps by active carbon, polymer and activated carbon doped polymer materials. , 2012 - 2015

Kılıç M., Erzan Topçu E., Kamış Kocabağ Z., Tekin İ., TÜBİTAK - AB COST Project, Sıvı pistonlu sıkıştırılmış hava superkapasitör kullanan küçük ölçekli hibrit enerji depolama sisteminin tasarımı prototip imalatı ve performans analizi, 2011 - 2014

Kılıç M., Industrial Thesis Project, Basınçlı Hava Kurutucusu Tasarımı ve Prototip İmalatı T C Sanayi ve Ticaret Bakanlığı SANTEZ Projesi, 2011 - 2012

Kılıç M., Karpat F., TELLİ ÇETİN S., Industrial Thesis Project, Büyük ölçekli portaldan hareketli CNC kontrollü freze tezgahının yapısal tasarımı ve prototip imalatı T C Sanayi ve Ticaret Bakanlığı SANTEZ Projesi, 2010 - 2012

Kılıç M., Project Supported by Higher Education Institutions, Tekstil Endüstrisinde Atık Isının Adsorpsiyonlu Sistemler İle Geri Kazanımı İçin Simülasyon Programı, 2010 - 2012

Kılıç M., Project Supported by Higher Education Institutions, Gözenekli Yalıtım Malzemelerinde Etkatif Isı İletim Katsayısı Üzerine Yapı ve İşletme Parametrelerinin Etkisinin İncelenmesi, 2008 - 2010

KILIÇ M., TUBITAK Project, Otomobillerde ısı konfor parametrelerinin deneysel ve sayısal analizi, 2006 - 2009

Kılıç M., Kaynaklı Ö., TUBITAK Project, TÜBİTAK 1001 Otomobillerde ısı konfor parametrelerinin sayısal ve deneysel incelenmesi, 2006 - 2009

Akincitürk E. N., Kılıç M., Babalık F., Taş M., Taş N., Perker Z. S., Project Supported by Higher Education Institutions, Bursa Cumalıkızık Köyü Örneğinde Tarihi Yapılarda Yangın Güvenlik Önlemleri ve Yangından Korunma Projesi, 1999 - 2004

Kılıç M., Yamankaradeniz R., Municipality, Bursa Metropolitan Municipality Fire Protection and Reorganization of Fire Brigade Research Project, 1994 - 1995

## Patent

Kılıç M., Sevilgen G., YENİ BİR BASKI PLAKASI, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: TR 2016 04123 B , Standard Registration, 2020

## Activities in Scientific Journals

SUSTAINABILITY, Special Issue Editor, 2021 - Continues

Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, Advisory Committee Member, 2016 - Continues

International Journal Of Vehicle Design, Special Issue Editor, 2010 - 2010

## Memberships / Tasks in Scientific Organizations

Turkish Society of HVAC & Sanitary Engineers, Member, 1997 - Continues, Turkey

Turkish Society for Thermal Sciences and Technology, Member, 1995 - Continues, Turkey

Chamber of Turkish Mechanical Engineers, Member, 1994 - Continues, Turkey

## Scientific Refereeing

BUILDINGS, SCI Journal, April 2023

SUSTAINABILITY, SCI Journal, April 2023

BUILDINGS, SCI Journal, April 2023

BUILDINGS, SCI Journal, April 2023

ENERGIES, SCI Journal, March 2023

ENERGIES, SCI Journal, February 2023

BUILDINGS, SCI Journal, January 2023

RESOURCES-BASEL, SCI Journal, January 2023

Processes, SCI Journal, December 2022

SUSTAINABILITY, SCI Journal, November 2022

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COATINGS, SCI Journal, September 2022

COATINGS, SCI Journal, September 2022

ATMOSPHERE, SCI Journal, July 2022

SUSTAINABILITY, SCI Journal, May 2022

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ENERGIES, SCI Journal, March 2022

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ENERGY, SCI Journal, December 2021

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ADVANCES IN MECHANICAL ENGINEERING, SCI Journal, December 2021

RENEWABLE AND SUSTAINABLE ENERGY REVIEWS, Journal Indexed in SCI-E, December 2021

INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, Journal Indexed in SCI-E, November 2021

CASE STUDIES IN THERMAL ENGINEERING, Journal Indexed in SCI-E, November 2021

ENERGY, SCI Journal, November 2021

INTERNATIONAL JOURNAL OF PHOTOENERGY, Journal Indexed in SCI-E, November 2021

ENERGY, SCI Journal, November 2021

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Uludağ University, Turkey, November 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, November 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, November 2021

SUSTAINABILITY, Journal Indexed in SSCI, October 2021

APPLIED ENERGY, Journal Indexed in SCI-E, October 2021

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ENERGY, Journal Indexed in SCI-E, August 2021

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SCIENTIFIC REPORTS, Journal Indexed in SCI-E, August 2021

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RENEWABLE AND SUSTAINABLE ENERGY REVIEWS, Journal Indexed in SCI-E, July 2021

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TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, July 2021

JOURNAL OF CLEANER PRODUCTION, SCI Journal, May 2021

RENEWABLE ENERGY, SCI Journal, May 2021

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Interfacial Phenomena and Heat Transfer, Journal Indexed in ESCI, May 2021

HEAT AND MASS TRANSFER, SCI Journal, May 2021

JOURNAL OF CLEANER PRODUCTION, SCI Journal, May 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, May 2021

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

Proceedings Of The Institution Of Mechanical Engineers Part C-Journal Of Mechanical Engineering Science, SCI Journal, April 2021

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, SCI Journal, April 2021

JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, SCI Journal, April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, April 2021

ENERGY, SCI Journal, March 2021

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, March 2021

HEAT AND MASS TRANSFER, SCI Journal, March 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, March 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, 2535 TÜBİTAK-IRAN MSRT, Bursa Uludağ University, Turkey, March 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, March 2021

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, SCI Journal, February 2021

APPLIED ENERGY, SCI Journal, January 2021

RENEWABLE ENERGY, SCI Journal, January 2021

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Journal Indexed in SCI-E, October 2020

HEAT AND MASS TRANSFER, SCI Journal, September 2020

JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, September 2020

RENEWABLE ENERGY, Journal Indexed in SCI-E, September 2020

SCIENCE AND TECHNOLOGY FOR THE BUILT ENVIRONMENT, Journal Indexed in SCI-E, September 2020  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, Journal Indexed in SCI-E, September 2020  
APPLIED ENERGY, Journal Indexed in SCI-E, September 2020  
ENERGY, Journal Indexed in SCI-E, September 2020  
ENERGY CONVERSION AND MANAGEMENT, Journal Indexed in SCI-E, September 2020  
TUBITAK Project, 1002 - Quick Support Program, Bursa Uludağ University, Turkey, August 2020  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Bursa Uludağ University, Turkey, June 2020  
APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, January 2020  
TÜBİTAK International Multi-Cooperation Project, ERA.NET Project, Bursa Uludağ University, Turkey, March 2019

## Tasks In Event Organizations

Kılıç M., 23rd Congress on Thermal Science and Technology (ULIBTK 2021), Scientific Congress, Gaziantep, Turkey, Eylül 2021  
Kılıç M., 15th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (ATE-HEFAT 2021), Scientific Congress, Cape-Town, South Africa, Temmuz 2021  
Kılıç M., ALTERNATIVE ENERGY SOURCES, MATERIALS AND TECHNOLOGIES (AESMT'21), Scientific Congress, Ruse, Bulgaria, Haziran 2021  
Kılıç M., 5th International Anatolian Energy Symposium 24-26 March 2021, Scientific Congress, Trabzon, Turkey, Mart 2021  
Kılıç M., Alternative Energy Sources, Materials & Technologies (AESMT'19), Scientific Congress, Sofija, Bulgaria, Haziran 2019  
Kılıç M., Alternative Energy Sources, Materials & Technologies (AESMT'18), Scientific Congress, Plovdiv, Bulgaria, Mayıs 2018  
Kılıç M., 4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Scientific Congress, Edirne, Turkey, Nisan 2018  
Kılıç M., OTEKON'12 6. Otomotiv Teknolojileri Kongresi, 2012, Scientific Congress, Bursa, Turkey, Haziran 2012  
Kılıç M., OTEKON'10 5. Otomotiv Teknolojileri Kongresi, 2010, Scientific Congress, Bursa, Turkey, Haziran 2010  
Kılıç M., OTEKON'08 4. Otomotiv Teknolojileri Kongresi, 2008, Scientific Congress, Bursa, Turkey, Haziran 2008  
Kılıç M., OTEKON'06 3. Otomotiv Teknolojileri Kongresi, 2006, Scientific Congress, Bursa, Turkey, Haziran 2006  
Kılıç M., Otomotiv Teknolojileri Kongresi (OTEKON 2004), Scientific Congress, Bursa, Turkey, Haziran 2004  
Kılıç M., 1. OTEKON'02 Otomotiv Teknolojileri Kongresi, 2002, Scientific Congress, Bursa, Turkey, Haziran 2002

## Scientific Research / Working Group Memberships

Bateg-Elektrikli Taşıtlar İçin Batarya Teknolojileri Araştırma Ve Geliştirme Platformu, Bursa Uludağ University, Türkiye, <https://avesis.uludag.edu.tr/arastirma-grubu/bateg>, 2022 - Continues

## Metrics

Publication: 242  
Citation (WoS): 1252  
Citation (Scopus): 1478  
H-Index (WoS): 19  
H-Index (Scopus): 21

## Congress and Symposium Activities

23rd CONGRESS ON THERMAL SCIENCE AND TECHNOLOGY, Attendee, Gaziantep, Turkey, 2021  
15th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (ATE-HEFAT 2021), Attendee, Cape-Town, South Africa, 2021  
the 15th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2021), Session Moderator, Cape-Town, South Africa, 2021  
22nd Congress on Thermal Science and Technology, Session Moderator, Kocaeli, Turkey, 2019  
4th International Conference on Smart and Sustainable Technologies (SpliTech 2019), Session Moderator, Split, Croatia, 2019  
REHVA 13th HVAC World Congress (CLIMA 2019), Attendee, Bucuresti, Romania, 2019  
3rd Conference of Interdisciplinary Research on Real Estate (2018 CIRRE Conference), Session Moderator, Groningen, Netherlands, 2018  
Alternative Energy Sources, Materials & Technologies (AESMT'18), Invited Speaker, Plovdiv, Bulgaria, 2018  
12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2016), Session Moderator, Malaga, Spain, 2016  
XV International Scientific Conference Renewable Energy & Innovative Technologies (RE&IT- 2016), Session Moderator, Smoljan, Bulgaria, 2016  
8th International Exergy, Energy and Environment Symposium, Session Moderator, Antalya, Turkey, 2016

## Scholarships

Doktora Bursu, YOK, 1989 - 2003

## Awards

Kılıç M., En iyi akademisyen, Bursa Uludağ Üniversitesi, November 2021  
Kılıç M., Mutlu M., Altun A. F., BEST PAPER AWARD, The 15Th International Conference On Heat Transfer, Fluid Mechanics And Thermodynamics (Hefat) And Editorial Board Of Applied Thermal Engineering (Ate), July 2021  
Kılıç M., Top Reviewers in Cross Field 2019, Clarivate Analytics Company, September 2019  
Kılıç M., Top Reviewer in Engineering, Publons, September 2019  
Kılıç M., Proje Performans Ödülü, Tübitak, November 2018  
Kılıç M., Top Reviewers in Engineering 2018, Clarivate Analytics Company, September 2018  
Kılıç M., • Uludağ Üniversitesi, Uludağ'ın Zirvesindekiler, Bilim, Sanat, Hizmet, Teşvik ve Başarı Yönergesi uyarınca 2013 Yılı Fen Bilimleri Alanında Bilim ve Sanat Kategorisi Ödülü., Bursa Uludağ Üniversitesi, October 2014  
Kılıç M., • Uludağ Üniversitesi, Uludağ'ın Zirvesindekiler, Bilim, Sanat, Hizmet, Teşvik ve Başarı Yönergesi uyarınca 2012 Yılı Fen Bilimleri Alanında Proje Kategorisi Ödülü., Bursa Uludağ Üniversitesi, October 2012  
Kılıç M., • TMMOB Makine Mühendisleri Odası Meslekte 25 Yıl Hizmet Ödülü., Tmmob Makine Mühendisleri Odası, December 2011

## Non Academic Experience

European Union, COST, COST Action CA17136  
European Union, COST, COST Action TU1205  
TUBITAK, KAMAG, KAMAG