

Professor Dr. Tolga Taner, Ph.D.

Mechanical Engineer /Energy

<https://g.co/kgs/JbuLwPe>

<https://maut.aksaray.edu.tr/Bolum-Baskani?l=en>

<https://scholar.google.com.tr/citations?hl=tr&user=PZVWOQ8AAAAJ>

Scopus ID: [56671058100](https://www.scopus.com/authid/detail.uri?authorid=56671058100)

Web of Science Researcher ID: [Q-4368-2017](https://www.webofscience.com/webof/profile/ci/Q-4368-2017)

ORCID ID: [0000-0002-3065-1942](https://orcid.org/0000-0002-3065-1942)

www.lotusxinovasyon.com



AWARDS and SUCCESS from International and National Organization

*** Listed in World Top 2% Scientists List 2025, 2024, 2023, 2022, 2021 and 2020.**

He is honored to be listed about Mechanical Engineering of Energy academic field.

(<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/8>)

**** Awarded Academic Performance of Engineering Science Field from Aksaray University in 2021 and 2019.**

Academic Field: Energy, Hydrogen, Fuel cell, Renewable energy, Energy storage system, EMI electronic filter

1. **Head of Department of Motor Vehicles and Transportation,**
Technical Sciences Vocational School, Aksaray University, 68100 Aksaray (Türkiye)
2. **Chairman of the Board,** Lotusx Innovation Software Technologies R&D Defense Energy Electromechanics Automotive Consulting Service and Industry Trade Inc.,
Aksaray University Technopark Bahcesaray Nbh. 135/Necmettin Erbakan Avenue No: 125/29,
68100 Aksaray (Türkiye)

Phone: + 90 533 481 11 34 & +90 382 288 20 40

Web: www.lotusxinovasyon.com

E-mail: tolgataner@aksaray.edu.tr & tanertolga@gmail.com & ttaner@lotusxinovasyon.com

EDUCATION

- 2023 **Professor**
Aksaray University, Aksaray (Turkey)
- 2018 **Associate Professor**
Republic of Turkey Inter-Universities Council, Ankara (Turkey)
Inter-Universities Council Board: The Jury has been awarded the title of Associate Professor.
- 2013 **Doctor of Philosophy**
Gazi University, Engineering Faculty, Mechanical Engineering, Ankara (Turkey)
- 2002 **Master of Science**
Pamukkale University, Engineering Faculty, Mechanical Engineering, Denizli (Turkey)
- 1998 **Bachelor of Science**
Pamukkale University, Engineering Faculty, Mechanical Engineering, Denizli (Turkey)

WORK EXPERIENCE

- 2025 – Present **Chairman of the Board**
Lotusx Innovation Software Technologies R&D Defense Energy Electromechanics Automotive Consulting Service and Industry Trade Inc.
- 2023 – Present **Professor (Head of the Department of Motor Vehicles and Transportation)**
Aksaray University, Department of Motor Vehicles and Transportation, Aksaray (Turkey)
- 2018 –2023 **Associate Professor (Head of the Department of Motor Vehicles and Transportation)**
Aksaray University, Department of Motor Vehicles and Transportation, Aksaray (Turkey)
- 2013 – 2018 **Assistant Professor (Head of the Department of Motor Vehicles and Transportation)**
Aksaray University, Department of Motor Vehicles and Transportation, Aksaray (Turkey)

- 2005 – 2013 **Department of Motor Vehicles and Transportation (Lecturer)**
Aksaray University Department of Motor Vehicles and Transportation, Aksaray (Turkey)
 Teaching courses about mechanical and automotive subjects. I have been committed to working in partnership with Daimler Mercedes-Benz Inc.
- 2003 – 2006 **Lecturer (part-time)**
Middle East Technical University, Ankara (Turkey)
 I gave the Scientific Principles of Technology, Process Measurements II and Energy Management courses.
- 2005 – 2005 **Factory Manager**
Tamer Steel Mold Co., Ltd., Ankara (Turkey)
 I worked as a Factory Manager for the tunnel formwork and steel-construction production.
- 2003 – 2005 **Production and operations department manager in construction**
Celmaksan Inc., Ankara (Turkey)
 Construction and machining of steel (aluminum, nickel, steel and galvanized) production
- 2000 – 2002 **Research Asistant**
Pamukkale University, Engineering Faculty, Mechanical Engineering, Denizli (Turkey)
 Entering Fluid Mechanics, Hydraulic Machines, Thermodynamics, Installation, Thermal Power Engineering, Mechanical Engineering and Mechanical Project assistant courses and Machinery Laboratory and the Laboratory Workshop classes in Department of Mechanical Engineering.
- 1999 – 2000 **Mechanical engineer**
Ilke Steel and Metal Industry Co., Ltd., Denizli (Turkey) Shift Engineer
 Monitored and evaluated daily production reports. Galvanized steel wire production was significantly increased visibly.
- 1998 – 1999 **Mechanical engineer**
UCTEA Chamber of Mechanical Engineers, Ankara (Turkey)

PUBLICATIONS

International Journal (SCI, ESCI, TR Index) Publications Top Journals

1. Akgunlu S, Ozcan O, Bacak A, Gonul A, **Taner T.**, Dalkilic A.S. (2024). Novel air duct designs to estimate the windshield demisting issue for a commercial vehicle, Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 238(14): 4315-4325. Doi: 10.1177/09544070231219727.
2. Balıkcı V, Gemici Z, **Taner T.**, Dalkilic A.S., (2024). Forecasting natural gas demand in Istanbul by artificial neural networks method and planning of city gate stations, Journal of the Faculty of Engineering and Architecture of Gazi University, 39(2): 1017-1027. Doi: 10.17341/gazimmfd.1165734. (Cited 2)
3. Koç O.K., Sertkaya A., Gönül A., **Taner T.**, Dalkılıç A.S. (2024). A case study on the modeling and simulation of UAVs, Journal of Thermal Engineering 10 (1), 164 – 174. Doi: 10.18186/thermal.1429773.
4. Akbiyik, T., Kahraman, N., **Taner, T.** (2023). Energy and exergy analysis with emissions evaluation of a gasoline engine using different fuels. Fuel, 345, 128189. Doi: 10.1016/j.fuel.2023.128189. (Cited 6)
5. Suerdem K., **Taner T.**, Acikgoz O, Dalkilic A.S., Panchal H. (2023). Performance of refrigerants employed in rooftop air-conditioners, Journal of Building Engineering, 39(2), 1017-1027. Doi: 10.1016/j.jobbe.2023.106301. (Cited 6)
6. Naqvi S.H.A., **Taner T.**, Ozkaymak M., Ali H.M. (2023). Hydrogen production through alkaline electrolyser: A techno-economic analyse and enviro-economic analysis. Chemical Engineering and Technology, 46 (3), 474-481. Doi: 10.1002/ceat.202200234. (Cited 58)
7. Akbiyik, T., Kahraman, N., **Taner, T.** (2022). The effect of boron-doped addition to spark ignition engine oil on engine emission, performance and lubricating oil properties. Fuel, 324 (Part C), 124783. Doi: 10.1016/j.fuel.2022.124783. (Cited 16)
8. Akbiyik, T., Kahraman, N., **Taner, T.** (2022). Investigation of the effect of boron additive to lubricating oil on engine performance, exhaust, and emissions. Fuel, 312, 122931. Doi: 10.1016/j.fuel.2021.122931. (Cited 3)
9. Ozsagiroglu S., Camci M., **Taner T.**, Acikgoz O, Dalkilic A.S., Wongwises S., (2022). CFD analyses on the thermal comfort conditions of a cooled room: a case study, Journal of Thermal Analysis and Calorimetry, 147, 2615-2639. Doi: 10.1007/s10973-021-10612-w. (Cited 3)
10. Akalin G.O., Oztuna Taner O., **Taner T.**, (2022). The preparation, characterization and antibacterial properties of chitosan/pectin silver nanoparticle films, Polymer Bulletin, 79, 3495-3512, Doi: 10.1007/s00289-021-03667-0. (Cited 17)
11. **Taner, T.** (2021). The novel and innovative design with using H₂ fuel of PEM fuel cell: Efficiency of thermodynamic analyze. Fuel, 302, 121109. Doi: 10.1016/j.fuel.2021.121109. (Cited 18)

12. **Taner T. (2019).** A flow channel with nafion membrane material design of PEM fuel cell. *Journal of Thermal Engineering*, 5 (5), 456-468. Doi: 10.18186/thermal.624085. **(Cited 21)**
13. **Taner T., Naqvi S.H.A., Ozkaymak M. (2019).** Techno-economic analysis of a hydrogen generation system prototype: A case study of PEM electrolyser with Cr-C coated SS304 bipolar plates. *Fuel Cells*, 19 (1), 19-26. Doi: 10.1002/fuce.201700225. **(Cited 5)**
14. **Taner T., Dalkilic A.S. (2019).** A Feasibility Study of solar energy-techno economic analysis from Aksaray city, Turkey. *Journal of Thermal Engineering*, 5 (1), 25-30. Doi: 10.18186/thermal.505498.
15. **Taner T. (2018).** Energy and exergy analyze of PEM fuel cell: A case study of modeling and simulations. *Energy*, 143, 284-294., Doi: 10.1016/j.energy.2017.10.102. **(Cited 138)**
16. Topal H., **Taner T., Altinci Y., Amirabedin E. (2018)** Application of trigeneration with direct co-combustion of poultry waste and coal: A case study in the poultry industry from Turkey. *Thermal Science*, 22 (6B), 3073-3082. Doi: 10.2298/TSCI170210137T. **(Cited 22)**
17. Cebi A., Celen A., Donmez A., Celtek M.S., Celen C., Dalkilic A.S., **Taner T., Wongwises S. (2018).** A review of flow boiling in mini and microchannels for enhanced geometries. *Journal of Thermal Engineering*, 4, 2037-2074. Doi: 10.18186/journal-of-thermal-engineering.411437. **(Cited 22)**
18. **Taner T. (2018).** Economic analysis of a wind power plant; a case study for the Cappadocia region. *Journal of Mechanical Science and Technology*, 32 (3), 1379-1389., Doi: 10.1007/s12206-018-0241-6. **(Cited 22)**
19. **Taner T., Sivrioglu M., Topal H., Dalkilic A.S., Wongwises S. (2018).** A Model of Energy Management Analysis, Case Study of a Sugar Factory in Turkey. *Sadhana-Academy Proceedings in Engineering Sciences*, 43 (3) 42, 1-20. Doi: 10.1007/s12046-018-0793-2. **(Cited 22)**
20. **Taner T. (2017).** The micro-scale modeling by experimental study in PEM fuel cell. *Journal of Thermal Engineering*, 3(6), 1515-1526., Doi: 10.18186/journal-of-thermal-engineering. **(Cited 7)**
21. **Taner T., Sivrioglu M. (2017).** A techno-economic & cost analysis of a turbine power plant: A case study for sugar plant. *Renewable and Sustainable Energy Reviews*, 78, 722-730., Doi: 10.1016/j.rser.2017.04.104. **(Cited 15)**
22. Topal H., **Taner T., Naqvi S.H.A., Altinsoy Y., Amirabedin E., Ozkaymak M. (2017).** Exergy analysis of a circulating fluidized bed power plant co-firing with olive pits: A case study of power plant in Turkey. *Energy*, 140, 40-46., Doi: 10.1016/j.energy.2017.08.042. **(Cited 1)**
23. Dalkilic A.S., Celen C., Cebi A., **Taner T., Wongwises S. (2017).** Parametric Study of Energy, Exergy and Thermoeconomic Analyses On A Vapor-Compression System Cascaded With Libr/Water And Nh3/Water Absorption Cascade Refrigeration Cycles.(2017). *Anadolu University Journal of Science and Technology A-Applied Sciences and Engineering* 18(1), 78-78., Doi: 10.18038/auubtda.300427. **(Cited 1)**
25. Kilic M., **Taner T. (2017).** Enhancing Heat Transfer from a Porous Plate with Transpiration Cooling. *European Journal of Engineering and Natural Sciences* 2 (1), 12-20.
26. **Taner T., Sivrioglu M. (2015).** Data on energy, exergy analysis and optimisation for a sugar factory. *Data in Brief* 5, 408-410. Doi: 10.1016/j.dib.2015.09.028.
28. **Taner T., Sivrioglu M. (2015).** Energy-exergy analysis and optimisation of a model sugar factory in Turkey. *Energy* 93 (1), 641-654. Doi: 10.1016/j.energy.2015.09.007. **(Cited 28)**
29. **Taner T., (2015).** Optimisation processes of energy efficiency for a drying plant: A case of study for Turkey. *Applied Thermal Engineering* 80, 247-260. Doi: 10.1016/j.applthermaleng. 2015.01.076. **(Cited 33)**
30. **Taner T., (2015).** Alternative Energy of the Future: A Technical Note of PEM Fuel Cell Water Management. *Journal of Fundamentals of Renewable Energy and Applications* 5 (3), 1-4. Doi: 10.4172/20904541.1000163. **(Cited 21)**
31. **Taner T., Sivrioglu M., (2014).** Thermoeconomic analysis for the power plants of sugar factories, *Journal of The Faculty of Engineering and Architecture of Gazi University*, Vol 29, No 2, 407-414. **(Cited 9)**
32. **Taner T., Demirci K.O., (2014).** Energy and economic analysis of the wind turbine plant's draft for the Aksaray City, *Applied Ecology and Environmental Sciences* 2 (3), 82-85. Doi: 10.12691/aees-2-3-2 **(Cited 5)**
33. Yenil H.U.,**Taner T., (2014).** The river management modelling based on ecology, *American Journal of Water Resources* 2 (3), 71-73.
34. **Taner T., Sivrioglu M., (2013).** Sugar factories' analysis of energy and exergy methods, *Engineer&the Machinery*, Number 637, 54-58. **(Cited 1)**
35. **Taner T., (2013).** Energy saving for the industrial plants, *Makinatek*, 185, 274-276.

International Journals (Scopus, Ebsco etc.) and Congress (Conferences) Publications

1. Akbiyik T., Kahraman N., **Taner T. (2022)** Experimental investigation of the effects of gasoline, methanol and natural gas fuel on engine performance and emissions in a gasoline engine, 16th International Combustion Symposium INCOS 2022, Aydin, Turkey.
2. Ozturk M., **Taner T., Dalkilic A. S. (2021)** Energy balance and exergy efficiency with the sample CFD program of sports technologies, 6th Conference on Advances in Mechanical Engineering Icame 2021, Istanbul, Turkey.
3. Eroglu L., **Taner T., Dalkilic A. S. (2021)** Investigation of the effect of flow channel design on pem fuel cell voltage, 6th Conference on Advances in Mechanical Engineering Icame 2021, Istanbul, Turkey.
4. Kilic S., **Taner T., Dalkilic A. S. (2021)** A review of nanotechnological advances about anode materials to improve the performance of electric vehicle lithium-ion batteries, 6th Conference on Advances in Mechanical Engineering Icame 2021, Istanbul, Turkey.

5. **Taner T. (2019)** Comparison of commercial design with innovative design PEM fuel cells, 5th Conference On Advances in Mechanical Engineering Icame 2019, Istanbul, Turkey.
6. Duzgun Z., **Taner T.**, Dalkilic A. S. (2019) Production of carbon fibers and paper from vegetable fibers for using fuel cells, 5th Conference On Advances in Mechanical Engineering Icame 2019, Istanbul, Turkey.
7. Akbiyik T., Kahraman N., **Taner T.**, (2019) Investigation of a boron additive effective on lubricating oil in internal combustion engine using gasoline, 5th Conference On Advances in Mechanical Engineering Icame 2019, Istanbul, Turkey.
8. **Taner T.**, (2019) Cost analysis of PEM fuel cell design with flow channels and membrane material, UmcaK 2019, S. Urfa, Turkey.
9. **Taner T.**, (2018) Different flow channels and different material membrane production in PEM fuel cell, Icame 2018, Istanbul, Turkey, 441-445.
10. Ö. Taner Ö., **Taner T.**, Dalkilic A.S. (2018) Cooling technology and thermodynamic applications for food preservation, Icame 2018, Istanbul, Turkey, 1133-1136.
11. Naqvi S:H.A., **Taner T.**, Ozkaymak M. (2018) A discussion on the recent advances and the possible future use of solar energy and csp hybrid systems in Turkey, Icame 2018, Istanbul, Turkey, 987-994.
12. Ö.Taner Ö., **Taner T.**, Ekici L. (2017). Applications of renewable Energy sources in food sector. *International Conference on Energy and Thermal Engineering: Istanbul 2017*, 337-337.
13. **Taner T.** Dalkilic A. S. (2017). A feasibility study of solar energy economic analysis from Aksaray, Turkey. *International Conference on Energy and Thermal Engineering: Istanbul 2017*, 537-540.
14. **Taner T.** (2016). A Significant of Boron Reserves for Turkey. *International Conference On Advances in Automotive Technologies*, 1, 349-351, Istanbul, Turkey.
16. **Taner T.** (2016). A strategic location of Turkey for energy such as petroleum and the other energy resources. *World Congress on Petroleum and Refinery*, 7(03), 52-52, Brisbane, Australia.
17. **Taner T.**, Kilic M. (2016). A General Overview of Cogeneration Systems in Turkey. *International Conference on Engineering and Natural Sciences (ICENS)* 2016, 4, 786-791, Sarajevo, Bosnia Herzegovina.
18. **Taner T.**, Sivrioglu M. (2015). Evaporation process of heat exchangers of heat transfer analysis: A case of sugar factory. (In Press) 3. Anatolia Energy Symposium, Mugla, Turkey.
19. **Taner T.**, Topal H., (2015). Energy performance and efficiency for Turkey's energy policy. *The Proceedings of Second International Iron and Steel Symposium (IISS'15)*, 812-814, Karabuk, Turkey.
21. Yenil H.U., **Taner T.**, (2015). Landscape Planning and Management for River Catchments of Hydroelectric Power Plants for Turkey. *International Congress on Engineering and Natural Sciences (ICENS 2015)*, Skopje, Macedonia.
22. Ö.Taner Ö., **Taner T.**, Topal H., (2015). Energy analyse and management: A sample of milk factory in Turkey. *International Congress on Engineering and Natural Sciences (ICENS 2015)*, Skopje, Macedonia.
23. **Taner T.**, (2014). Water management of proton exchange membrane fuel cell. *Energy Technologies Conference (ENTECH'14)*, 17, Istanbul, Turkey.
25. **Taner T.**, Ersan K., Eroglu L., (2008). The importance of alternative energy sources in PEM fuel cell for automotive sector and the benefits of ecological equilibrium, *Blacksea International Environmental Symposium*, 449-455, Giresun, Turkey.
26. **Taner T.**, Ersan K., Eroglu L., (2008). A water management of proton membrane fuel cell, *First National Solar and Hydrogen Energy Conference-UGHEK*, 195-204, Eskisehir, Turkey.
27. **Taner T.**, Eroglu L., (2008). The importance of alternate energy is a water management of proton membrane fuel cell for future, *VII. National Clean Energy Symposium*, 735-742, İstanbul, Turkey.
28. **Taner T.**, Atilgan M., Ozturk H.K., (2001). Energy performance analysis, *Renewable Energy Resources Symposium and Exhibition*, 251-255, Kayseri, Turkey.
29. **Taner T.**, Atilgan M., Ozturk H.K., (2001). Turkey's energy policy, *Natural Gas & Energy Management Conference and Exhibition*, 56-64, Gaziantep, Turkey.
30. **Taner T.**, Taner O., Kalkan S., (2009). A milk plant energy analysis and management, *Milk and Milk Products Symposium*, 11, Denizli, Turkey.
31. **Taner T.**, Atilgan M., Ozturk H.K., (2001). Energy saving for the highways, (EMO'01) *Congress and Exhibition*, 324-331, Izmir, Turkey.

International Book (Editor & Author)

1. **Taner T.**, Innovative Approaches to Renewable Energy Systems with Hydrogen (**Editor**). Editor of Book, Elsevier Publisher, *In Process*: 2026.
2. **Taner T.**, Ali H. M., Developing Advanced Technologies for Hydrogen Storage and Production (**Editor**). Editor of Book, IGI Global Scientific Publishing, ISBN13: 9798369308271, 2025.
3. **Taner T.**, Renewable Energy (**Editor** and Chapter Author). Editor of Book, InTechOpen Publisher, European Union, Published: 2021.
4. **Taner T.**, Energy Policy (**Editor** and Chapter Author). Editor of Book, InTechOpen Publisher, European Union, Published: 2020.

5. **Taner T.**, Power Plants in the Industry, (**Editor** and Chapter Author). Editor of Book, InTechOpen Publisher, European Union, **2019**, ISBN: 978-1-78985-084-0, Print ISBN: 978-1-78985083-3.
6. **Taner T.**, Proton Exchange Membrane Fuel Cell (**Editor** and Chapter Author). Editor of Book, InTechOpen Publisher, European Union, **2018**, ISBN: 978-1-78923-067-3, Print ISBN: 978-1-78923066-6.
7. **Taner T.**, Application of Exergy (**Editor** and Chapter Author). Editor of Book, InTechOpen Publisher, European Union, **2018**, ISBN: 978-1-78923-267-7, Print ISBN: 978-1-78923-266-0.

Book's Chapter Publication

8. Arpit S., **Taner T.**, *Chapter 3 Progress and Obstacles in Green Hydrogen Production* (Developing Advanced Technologies for Hydrogen Storage and Production), IGI Global Scientific Publishing, ISBN13: 9798369308271, 49-60, **2025**.
9. Akbiyik T., **Taner T.**, *Chapter 5 Hydrogen Application of Plasmatron Technology in Fuel Preparation and Mitigation of Exhaust Emissions* (Developing Advanced Technologies for Hydrogen Storage and Production), IGI Global Scientific Publishing, ISBN13: 9798369308271, 99-116, **2025**.
10. Mercan H., Celen A., **Taner T.** Chapter 4 Thermophysical and rheological properties of unitary and hybrid nanofluids: Advances in Nanofluid Heat Transfer, Elsevier Publisher: **2022**. Doi: 10.1016/B978-0-323-88656-7.00005-2.
11. **Taner T.**, Energy Policy; Chapter 1 Introductory Chapter: A View of Energy Policy, InTechOpen Publisher, European Union, **2018**.
12. **Taner T.**, Sivrioglu M., Power Plants in the Industry; Chapter 1 Introductory Chapter: Application of Power Plants in the Industry, InTechOpen Publisher, European Union, **2018**.
13. **Taner T.**, Proton Exchange Membrane Fuel Cell; Chapter 1 Introductory Chapter: An Overview of PEM Fuel Cell Technology, InTechOpen Publisher, European Union, **2018**, ISBN: 978-1-78923067-3, Print ISBN: 978-1-78923-066-6.
14. **Taner T.**, Application of Exergy; Chapter 1 Introductory Chapter: Application of Exergy for All Energy Field and New Technologies , InTechOpen Publisher, European Union, **2018**, ISBN: 978-178923-267-7, Print ISBN: 978-1-78923-266-0.
15. **Taner T.**, Work and Energy (Chapter 7), (**2009**). *Scientific Principles of Technology*, Lisans Publishing, 156177, Istanbul, Turkey.

ACADEMIC AWARDS & SUCCESS

- Listed in World Top 2% Scientists List 2024. Honored to be listed at the 52319th location within this list, 2024.
- Listed in World Top 2% Scientists List 2023. Honored to be listed at the 97247th location within this list, 2023.
- Listed in World Top 2% Scientists List 2022. Honored to be listed at the 93693th location within this list, 2022.
- Listed in World Top 2% Scientists List 2021. Honored to be listed at the 82837th location within this list, 2021.
- Listed in World Top 2% Scientists List 2020. Honored to be listed at the 132300th location within this list, 2020.
- Academic Staff Performance Award 2021 based on 2020 Academic Incentive Scores (Aksaray University), 2021.
- Academic Staff Performance Award 2019 based on 2018 Academic Incentive Scores (Aksaray University), 2019.
- Academic Point 58.8/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2023.
- Academic Point 62.4/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2022.
- Academic Point 55.5/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2021.
- Academic Point 68.4/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2020.
- Academic Point 67/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2019.
- Academic Point 88/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2018.
- Academic Point 60/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2017.
- Academic Point 58/ 100 YOK (Council of Higher Education) Academic Incentive Award, 2016.
- Publication Award of the Scientific and Technological Research Council of Turkey, 2022. (For 3 Paper)
- Publication Award of the Scientific and Technological Research Council of Turkey, 2021. (For 1 Paper)
- Publication Award of the Scientific and Technological Research Council of Turkey, 2019. (For 1 Paper)
- Publication Award of the Scientific and Technological Research Council of Turkey, 2018. (For 2 Papers)
- Publication Award of the Scientific and Technological Research Council of Turkey, 2017. (For 2 Papers)
- Publication Award of the Scientific and Technological Research Council of Turkey, 2016. (For 1 Paper)

- Publication Award of the Scientific and Technological Research Council of Turkey, 2015. (For 1 Paper)
- Publication Award of the Scientific and Technological Research Council of Turkey, 2014. (For 1 Paper)

INTERNATIONAL RESEARCH NETWORKS (COST Actions)

COST (European Cooperation in Science and Technology) is a funding organisation for research and innovation networks bringing together researchers and innovators across Europe and beyond; **COST Actions** are scientific networks that typically run for **4 years**.

1. **CA20109 – MODULAR ENERGY ISLANDS FOR SUSTAINABILITY AND RESILIENCE (MODENERLANDS) | Membership: WG3 | Start-End: 11.10.2021 – 10.10.2025**
2. **CA20138 – Network on Water-Energy-Food Nexus for a Low-Carbon Economy in Europe and Beyond (NEXUSNET) | Membership: WG1, WG2 | Start-End: 22.09.2021 – 21.09.2025**
3. **CA20127 – Waste biorefinery technologies for accelerating sustainable energy processes (WIRE) | Membership: WG1, WG2, WG3 | Start-End: 27.10.2021 – 26.10.2025**
4. **CA22123 – European Materials Acceleration Center for Energy (EU-MACE) | Membership: WG3 | Start-End: 03.10.2023 – 02.10.2027**

RESEARCH INTEREST

- Hydrogen, Fuel Cell, Energy Storage, Energy & exergy analysis, Thermoeconomic & Energy Economy analysis, Energy management, Wind energy, Solar Energy, Power Plant, Evaluation energy and exergy analysis with SPSS Statistical Method.

CONSULTANT, EXPERTISE, REVIEWER, of the INTERNATIONAL PROJECTS

Project assessment/evaluation and project monitoring activities (EUREKA, Eurostars Programme, e-cost, FP6/FP7, national R&D programmes, etc.)

- 1- **Project Assessment (Expert/Reviewer), COST European Cooperation in Science and Technology, Project 1, OC-2024-1-28023 - Solar-Driven Innovations: Sustainable Pathways for Fuel and Chemical Synthesis, January 2025**
- 2- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project-Innovation Fund Denmark (IFD) Mission Green Fuels 3 Projects, 4342-00007A C-ComSys, 4342-00009A ID-PAL, 4342-00002A HyperH2, October 2024**
- 3- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project-Innovation Fund Denmark (IFD) 1 Projects 1: 4353-00014A ProperWind, September 2024**
- 4- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project-Innovation Fund Denmark (IFD) 7 Projects 7: 4326-00023A – REFARM, 4326-00028A, 4326-00031A, 4326-00033A, 4326-00067A, 4326-00069A - NATASHA, 4326-00102A – FB, 15 May 2024**
- 5- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars 2 Projects; 6383 eDI The commuter vehicle of tomorrow & 6578 HyPOH Hydrogen Powered Off-Road Handling, 15 April 2024**
- 6- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project; 4659 NLTNS - Next Leading Thermal Nano Solution, 10 October 2023.**
- 7- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project; 5334 SOA4SURE - Service Oriented Architecture for Safe and Secure Applications in the Transport Sector, 10 October 2023.**
- 8- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars (10 projects), December, 2022**
 2022-18670/IW/CALL 1, Windcredible4CV
 2022-18642/IW/CALL 1, LCA and Process Simulation
 2022-18543/IW/CALL 1, C-ISPOGRIM
 2022-18492/IW/CALL 1, MOBI - Decentralized BioCNG Production
 2022-18415/IW/CALL 1, CREART
 2022-18408/IW/CALL 1, SolarBiogas Feasibility for Agro-Industries
 2022-18385/IW/CALL 1, VIBRO-TRACK
 2022-18334/IW/CALL 1, PTC4INDUSTRY MOROCCO
 2022-18103/IW/CALL 1, Water training in LATAM
 2022-18018/IW/CALL 1, Perfect motorcycle for Africa
- 9- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project-Innovation Fund Denmark (IFD) Project; 2087-00006A - Demonstration of technologies and pilot scale production of green hydrogen enabled through power conversion systems, 15 Aug 2022**
- 10- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project -Innovation Fund Denmark (IFD) Project; 2105-00024A - ReHTPEM Recycling of reformed-methanol High-Temperature PEM Fuel Cell components - boosting the green fuel value chain, 30 Aug 2022**
- 11- **Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project; 1620 - High Performance and Environmentally Friendly LFP -Si EV Batteries, Nanoramic Laboratories GmbH, 15 April 2022.**

- 12- Project Assessment (Expert/Reviewer), EUREKA/Eurostars Project-Innovation Fund Denmark (IFD)** Project; 2079-00005A - MakeFCLast Make-FC-Last Materials and Key Processes of Fabrication towards Cost and Lifetime Adaptable Sustainable Transport, 15 May **2022**.
- 13- Independent Assessor** (18 projects were evaluated about Manufacture Industry), Lefkose (TRNC Cyprus) Development Agency, 05-10 March 2018
- 14- Independent Assessor** (24 projects were evaluated about Defence Industry), Ankara Development Agency, 09-19 April 2016.
- 15- Independent Assessor** (25 projects were evaluated about Manufacture Industry), Kayseri Middle East Development Agency, 06-16 June 2016.
- 16- Independent Assessor** (25 projects were evaluated about Defence Industry), Ankara Development Agency, 20-30 April 2015.
- 17- Independent Assessor** (20 projects were evaluated about Manufacture Industry), Adana Development Agency, 22-28 June 2015.
- 18- Exterior Consultant Referee**, The Scientific and Technological Research Council of Turkey ARDEB 1001 Project, 07 May 2015.
- 19- Technical Adviser**, Project of The Scientific and Technological Research Council of Turkey, 2009. The project that was a drying plant optimisation process project number was 3090009.)

COURSES

Renewable energy, Thermodynamics, Heat Transfer, Fluid Mechanics, Energy Management, Combustion Technology, Exergy and Thermoeconomic Analysis, Fuel Cells, Nanotechnology, Energy Efficiency, Energy Systems

PROJECTS

- **Project Coordinator**, Project of Scientific Research Projects Agency under the research grant of 2021-014 (Funding Project No: 2021-014 Date Range of Project: From 27 Apr 2021 to 2023), 2021. (**The project title is Experimental investigation of energy storage and conversion efficiencies with 1 kW power capacity lithium-ion battery test station design.**)
- **Project Coordinator**, Project of Scientific Research Projects Agency under the research grant of 2018-003 (Funding Project No: 2018-058 Date Range of Project: From 19 Apr 2018 to 01 Jan 2020), 2020. (**The project title is Experimental optimization of PEM fuel cell performance in different flow channels and different material membranes.**)
- **Project Coordinator**, Project of Scientific Research Projects Agency under the research grant of 2018-058 (Funding Project No 2018-058 Date Range of Project: From 28 Dec 2018 to 27 Dec 2019), 2019. (**The project title is Preparation, Characterization, Thermal-Material and Antimicrobial Properties of Chitosan and Chitosan / Pectin Films Containing Silver Nanoparticles for Food Packaging.**)
- **Project Coordinator**, Project of Scientific Research Projects Agency under the research grant of 2016-030 (Funding Project No 2016-030 Date Range of Project: From 09 May 2016 to 09 February 2017), 2017. (**The project title is 7 W Power with Pt Catalyst in PEM Fuel Cell Performance - Productivity Improvements Related to Multi Scale Modeling Development of Simulations.**)

PERSONAL SKILLS Mother tongue(s)

Turkish

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C2	C1	C1	C1
English	A1	B1	A1	A1	B1
German					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user ([Common European Framework of Reference for Languages](#))

Language Score	78/100 Score (Council of Higher Education, Official Language Exam, YOKDIL) English
Job-related skills	I was responsible for my department. I am teaching courses about Mechanical and Automotive subjects.
Computer skills	Good command of Microsoft Office tools (Word, Excel and PowerPoint); Basic knowledge of graphic design applications (Adobe Illustrator, PhotoShop); Fluent Programme, Autocad Programme.
Employee info	Married with a daughter.
Hobbies	Tennis, basketball, bowling, volleyball, new technology, soccer

MY REFERENCES

1. Professor Dr. Ahmet Selim Dalkilic (Academic partner and colleague)

Editor-in-Chief of Journal of Thermal Engineering

Yildiz Technical University, Mechanical Faculty, Department of Mechanical Engineering, Istanbul, TURKEY

Contact Info: + 90 555 709 70 90 (GSM) ; + 90 212 383 28 21 (Office), e-mail: dalkilic@yildiz.edu.tr

2. Professor Dr. Hafiz Muhammad Ali (Academic partner and colleague)

Director of Heat Transfer Laboratory

King Fahd University of Petroleum and Minerals, Saudi Arabia

Contact Info: + 92 332 5606044 (GSM) ; +966 13 860 1379 (Office) e-mail: hafiz.ali@kfupm.edu.sa

3. Professor Dr. Mecit Sivrioglu (PhD Supervisor)

Gazi University, Engineering Faculty, Department of Mechanical Engineering, Ankara, TURKEY

Contact Info: + 90 534 372 17 35 (GSM) ; + 90 312 582 34 48 (Office), e-mail: mecits@gazi.edu.tr