Asst. Prof. Parısa HEIDARNEJAD

Personal Information

Office Phone: +90 537 864 2606
Email: parisa.heidarnejad@yildiz.edu.tr
Web: https://avesis.yildiz.edu.tr/parisa.heidarnejad
Address: Yıldız Teknik Üniversitesi, Mekatronik Mühendisliği Bölümü, Barbaros Bulvarı, Yıldız Kampüsü, A-309 Beşiktaş/İstanbul, 34349, Türkiye

International Researcher IDs
ScholarID: ddEBqSoAAAAJ
ORCID: 0000-0003-4294-1290
ScopusID: 56578709800
Yoksis Researcher ID: 353381

Education Information

Post Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Machine, Turkey 2020 - 2021
Doctorate, University of Tehran, Iran 2014 - 2019
Postgraduate, Al-Zahra Üniversitesi, Iran 2012 - 2014
Undergraduate, Urmia University, Iran 2006 - 2010

Foreign Languages

Turkish, C1 Advanced
Persian, C1 Advanced
Azerbaijani, C1 Advanced

Research Areas

Energy, Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2024 - Continues
Assistant Professor, Istanbul Gedik University, Faculty of Engineering, Mechanical Engineering, 2021 - 2024

Academic and Administrative Experience

Deputy Head of Department, Istanbul Gedik University, 2022 - 2024
Head of the Department Bologna Commission, Istanbul Gedik University, 2022 - 2024

Courses

Courses

Postgraduate

Engineering Mathematics2, Postgraduate, 2024 - 2025

Undergraduate

Process Technology, Undergraduate, 2024 - 2025

Heat Transfer, Undergraduate, 2024 - 2025

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Comprehensive evaluation of a new integrated ORC-VCR system with a thermoelectric generator unit combining sustainable energies for hydrogen production**
Sabbaghi M. A., GENCELİ H., Heidarnejad P., Asker M., Khanmohammadi S.
International Journal of Hydrogen Energy, vol.107, pp.488-501, 2025 (SCI-Expanded)

II. **Performance Assessment of an Interconnected Photovoltaic-Thermal System and Solar Thermal Collector: Parametric Study and Optimization**
Karami M., HEIDARNEJAD P.
Energy Science and Engineering, 2025 (SCI-Expanded)

III. **Thermoeconomic modeling and artificial neural network-based optimization of a decarbonized combined heat and power plant with hydrogen re-electrification**
HEIDARNEJAD P., Fathi P., Karami M.
International Journal of Hydrogen Energy, 2025 (SCI-Expanded)

IV. **Biomass-Fueled Organic Rankine Cycles: State of the Art and Future Trends**
Heidarnejad P., GENCELİ H., Hashemian N., Asker M., Al-Rawi M.
Energies, vol.17, no.15, 2024 (SCI-Expanded)

V. **The pandemic's sustainability windfall: a case study of COVID-19 restrictions on electricity demand patterns and sustainable development goals**
Heidarnejad P., GENCELİ H., Asker M., YUMURTACI Z.
International Journal of Global Warming, vol.32, no.4, pp.440-463, 2024 (SCI-Expanded)

VI. **A comprehensive approach for optimizing a biomass assisted geothermal power plant with freshwater production: Techno-economic and environmental evaluation**
HEIDARNEJAD P., GENCELİ H., Asker M., Khanmohammadi S.
Energy Conversion and Management, vol.226, 2020 (SCI-Expanded)

VII. **A novel solar-biomass based multi-generation energy system including water desalination and liquefaction of natural gas system: Thermodynamic and thermoeconomic optimization**
Ghasemi A., Heidarnejad P., Noorpoor A.
Journal of Cleaner Production, vol.196, pp.424-437, 2018 (SCI-Expanded)

VIII. **Exergoeconomic analysis and multi objective optimization of a solar based integrated energy system for hydrogen production**
Khanmohammadi S., Heidarnejad P., JAVANI N., GANJEHSARABİ H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.33, pp.21443-21453, 2017 (SCI-Expanded)

IX. **Multi-objective optimization of a combined steam-organic Rankine cycle based on exergy and exergo-economic analysis for waste heat recovery application**
Nazari N., Heidarnejad P., Porkhial S.
Energy Conversion and Management, vol.127, pp.366-379, 2016 (SCI-Expanded)

X. **Dynamic modelling, exergy assessment and optimisation of a novel solar-driven trigeneration system**
Noorpoor A., Heidararabi S., Heidarnejad P.
International Journal of Exergy, vol.20, no.4, pp.405-444, 2016 (SCI-Expanded)

XI. **Thermoeconomic assessment and multi objective optimization of a solar micro CCHP based on Organic Rankine Cycle for domestic application**
Boyaghchi F. A., Heidarnejad P.

Energy Conversion and Management, vol.97, pp.224-234, 2015 (SCI-Expanded)

XII. **Thermodynamic analysis and optimisation of a solar combined cooling, heating and power system for a domestic application**
Boyaghchi F. A., Heidarnejad P.
International Journal of Exergy, vol.16, no.2, pp.139-168, 2015 (SCI-Expanded)

XIII. **Energy and exergy analysis and optimization of a µ-solar-driven combined ejector-cooling and power system based on organic Rankine cycle using an evolutionary algorithm**
Boyaghchi F., Heidarnejad P.
Scientia Iranica, vol.22, no.1, pp.245-257, 2015 (SCI-Expanded)

Articles Published in Other Journals

I. **Dynamic simulation of the performance of a solar assisted heat pump in different climates**
Alipour B., Karami M., HEIDARNEJAD P.
International Journal of New Findings in Engineering, Science and Technology (IJONFEST), 2024 (Peer-Reviewed Journal)

II. **Design of a Cold Storage with R507A Refrigerant for the Preservation of Twenty-Five Tons of Apples in the Ankara Province**
Fenni B. O., KÖSE A., HEIDARNEJAD P.
Istanbul Gedik University, vol.1, no.1, 2023 (Peer-Reviewed Journal)

III. **Performance comparison and investigation of two different renewable energy fueled multigeneration systems**
Heidarnejad P., Noorpoor A.
Journal of Thermal Engineering, vol.7, no.5, pp.1039-1055, 2021 (ESCI)

IV. **Comparative techno-economic-environmental assessment of biomass fueled integrated energy systems**
HEIDARNEJAD P., GENCELİ H., YUMURTACI Z.
Turkish Journal of Electromechanics & Energy, 2021 (Peer-Reviewed Journal)

V. **Thermodynamic diagnosis of a novel solar-biomass based multi-generation system including potable water and hydrogen production**
Hashemian N., Noorpoor A., HEIDARNEJAD P.
Energy Equipment and Systems, 2019 (Peer-Reviewed Journal)

VI. **Exergy based optimization of a biomass and solar fuelled cchp hybrid seawater desalination plant**
Ghasemi A., Hashemian N., Noorpoor A., Heidarnejad P.
Journal of Thermal Engineering, vol.3, no.1, pp.1034-1043, 2017 (Scopus)

Papers Published in Refereed Scientific Meetings

I. **Thermodynamic and Thermoeconomic Comparisons of Two Trigeneration Systems**
HEİDARNEJAD P., NOORPOOR A., DİNCER İ.
2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS, 21 - 23 December 2016

Supported Projects

Heıdarnejad P., Dedecan A., TUBITAK Project, Design of a atmospheric water generator, 2024 - 2025
Heıdarnejad P., Yıldırım O. C., Ozkan E., TUBITAK Project, Solar Energy Powered Electromagnetic Gripper for Robot Arm, 2023 - 2024
Heıdarnejad P., Aldoğan A. C., TUBITAK Project, Thermal Management of Solar Panel Coated with Organic Phase Change

Material, 2023 - 2024
Heıdarnejad P., Köse A., Yıldırım F., Sulukan E., Project Supported by Higher Education Institutions, Design of a solar-based atmospheric water generator (BTAP GDK202308-26), 2023 - 2024

Metrics

Publication: 20
Citation (Scopus): 709
H-Index (Scopus): 8