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International Researcher IDs

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Publons / Web Of Science ResearcherID: HII-6047-2022

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2023 - Continues

Postgraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2021 - 2022

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2014 - 2019

Foreign Languages

English, B1 Intermediate

Research Areas

Direct Energy Conversion and Energy Storage, Power System Analysis, Electric Power Transmission, Distribution and Protection, Renewable energy

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- The effect of electric vehicle charging demand variability on optimal hybrid power systems with second-life lithium-ion or fresh Na-S batteries considering power quality**
Terkes M., Arikan O., Gokalp E.
Energy, vol.288, 2024 (SCI-Expanded)

- II. **An evaluation of optimal sized second-life electric vehicle batteries improving technical, economic, and environmental effects of hybrid power systems**
Terkeş M., Demirci A., Gokalp E.
ENERGY CONVERSION AND MANAGEMENT, vol.291, pp.1-15, 2023 (SCI-Expanded)
- III. **Optimal sizing and feasibility analysis of second-life battery energy storage systems for community microgrids considering carbon reduction**
Terkeş M., Öztürk Z., Demirci A., Tercan S. M.
JOURNAL OF CLEANER PRODUCTION, vol.421, pp.138507-138520, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **A comprehensive review of the aging mechanism and degradation costs of fresh and second-life batteries based on analytical and deterministic methods**
Terkeş M., Demirci A., Gokalp E.
ENERGY STORAGE, vol.6, no.e661, pp.1-32, 2024 (ESCI)
- II. **Optimal Energy Management in Microgrids Considering Supply Demand Rate and Battery Discharge Depth**
TERKEŞ M., DEMİRCİ A.
INTERNATIONAL JOURNAL OF RESEARCH - GRANTHAALAYAH, vol.11, no.10, pp.64-79, 2023 (Peer-Reviewed Journal)
- III. **Optimal Sizing and Operation of Hybrid Power Systems Considering the Battery Capacity Degradation Limitations**
Terkeş M., Demirci A.
International Journal of Engineering Technologies and Management Research, vol.10, no.9, pp.52-69, 2023 (Peer-Reviewed Journal)
- IV. **Comparative Feasibility and Aging Analysis of Battery Technologies in Hybrid Power Systems Considering Demand Variability and Carbon Tax**
Terkeş M., Demirci A.
International Journal of Advanced Research and Review, vol.8, no.9, pp.33-48, 2023 (Peer-Reviewed Journal)
- V. **Evaluation of technical and financial benefits of battery energy storage system control strategies**
Oğuzalp F., Terkes M., Demirci A.
International journal of energy studies (Online), vol.9, no.1, pp.1-20, 2023 (Peer-Reviewed Journal)
- VI. **Feasibility Analysis of Solar-Powered Electric Vehicle Charging Stations Considering Demand Profiles**
TERKEŞ M., DEMİRCİ A.
International Journal of Research and Analytical Reviews, vol.10, no.3, pp.906-917, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Lighting Energy Savings Potential and Visual Comfort of Integrating Electrochromic Smart Windows in An Office Building: A Case Study in İstanbul, Türkiye**
Gündoğdu H., Terkeş M., Demirci A.
International 7th USBILIM Health, Engineering and Applied Sciences Congress, Cairo, Egypt, 29 - 31 May 2024, pp.50-57
- II. **Design of An Efficient and Low-Cost Buck-Converter by Optimizing Frequency and Inductance Values**
Alseraji A., Terkeş M., Demirci A.
International 7th USBILIM Health, Engineering and Applied Sciences Congress, Cairo, Egypt, 29 - 31 May 2024, pp.41-49
- III. **The Effect of Economic Conditions on Optimal Sizing and Feasibility of Hybrid Power System**

Terkeş M., Demirci A., Öztürk Z., Öztürk A., Tosun S., Andiç C.

14th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 30 November - 02 December 2023, vol.1, pp.1-5

- IV. **Batarya Teknolojilerinin Teknik, Ekonomik ve Çevresel Performanslarının Hibrit Güç Sistemlerinde Karşılaştırılması**
Terkeş M., Demirci A.
9.Uluslararası Uygulamalı Bilimler Kongresi, Afyonkarahisar, Turkey, 30 August 2023, vol.9, no.1, pp.196-204
- V. **Evaluation of Hybrid Power System Feasibility Considering Battery Degradation**
Terkeş M., Demirci A.
17th International Scientific Research Congress: Science and Engineering, Ankara, Turkey, 19 - 20 August 2023, pp.95-105
- VI. **Feasibility analysis of solar-powered electric vehicle charging stations considering peak demand periods and renewable energy potential**
Terkeş M., Demirci A.
11th International Congress of Academic Research, Ankara, Turkey, 25 - 26 July 2023, vol.11, no.1, pp.461-471
- VII. **Integration of the Electric Vehicle Charging Station for Campus Parking Lot with Renewable Energy Sources**
Terkeş M., Tercan S. M., Demirci A., Gökalp E.
4 th International Engineering Research Symposium, Düzce, Turkey, 4 - 06 March 2022, vol.1, no.1, pp.84
- VIII. **An Evaluation of Renewable Fraction Using Energy Storage for Electric Vehicle Charging Station**
Terkes M., Tercan S. M., Demirci A., Gokalp E.
4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2022, Ankara, Turkey, 9 - 11 June 2022

Awards

Terkeş M., Yüksek Onur Öğrencisi, Yıldız Teknik Üniversitesi, October 2022

Terkeş M., Yüksek Onur Öğrencisi, Yıldız Teknik Üniversitesi, October 2019

Terkeş M., Okul Birinciliği, Zeytinburnu Teknik Ve Endüstri Meslek Lisesi, July 2014