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Research Areas

Electrical and Electronics Engineering, Energy

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Enerji Enstitüsü, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Techno-economic analysis of PV systems with manually adjustable tilt mechanisms**
Gönül Ö., Duman A. C., Barutçu B., Güler Ö.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.35, 2022 (SCI-Expanded)
- II. **A comparative techno-economic assessment of manually adjustable tilt mechanisms and automatic solar trackers for behind-the-meter PV applications**
Gönül Ö., Yazar F., Duman A. C., Güler Ö.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.168, 2022 (SCI-Expanded)
- III. **Optimal sizing of PV-BESS units for home energy management system-equipped households considering day-ahead load scheduling for demand response and self-consumption**
Duman A. C., Erden H. S., Gonuel Ö., Güler Ö.
ENERGY AND BUILDINGS, vol.267, 2022 (SCI-Expanded)
- IV. **An assessment of wind energy status, incentive mechanisms and market in Turkey**
Gönül Ö., Duman A. C., Deveci K., Güler Ö.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.6, pp.1383-1395, 2021 (SCI-Expanded)
- V. **Electric vehicles and charging infrastructure in Turkey: An overview**
Gönül Ö., Duman A. C., Güler Ö.
Renewable and Sustainable Energy Reviews, vol.143, 2021 (SCI-Expanded)
- VI. **A home energy management system with an integrated smart thermostat for demand response in smart grids**
Duman A. C., Erden H. S., Gönül Ö., Güler Ö.
SUSTAINABLE CITIES AND SOCIETY, vol.65, 2021 (SCI-Expanded)
- VII. **Economic analysis of grid-connected residential rooftop PV systems in Turkey**
Duman A. C., Güler Ö.
Renewable Energy, vol.148, pp.697-711, 2020 (SCI-Expanded)

- VIII. **Techno-economic analysis of off-grid photovoltaic LED road lighting systems: A case study for northern, central and southern regions of Turkey**
Duman A. C., Güler Ö.
BUILDING AND ENVIRONMENT, vol.156, pp.89-98, 2019 (SCI-Expanded)
- IX. **Techno-economic analysis of off-grid PV LED road lighting systems for Antalya province of Turkey**
Duman A. C., Güler Ö.
Light and Engineering, vol.27, no.2, pp.58-66, 2019 (SCI-Expanded)
- X. **Techno-economic analysis of off-grid PV/wind/fuel cell hybrid system combinations with a comparison of regularly and seasonally occupied households**
DUMAN A. C., GÜLER Ö.
Sustainable Cities and Society, vol.42, pp.107-126, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Residential Load Scheduling Optimization for Demand-Side Management under Time-of-Use Rate**
Duman A. C., Güler Ö., Deveci K., Gönül Ö.
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018, pp.193-196
- II. **Techno-Economic Analysis of Off-grid Photovoltaic LED Road Lighting System for TURKEY**
DUMAN A. C., GÜLER Ö.
33rd European Photovoltaic Solar Energy Conference and Exhibition, 25 - 29 September 2017, pp.2440-2446

Supported Projects

Erden H. S., Güler Ö., Duman A. C., Gönül Ö., Deveci K., TUBITAK Project, Modeling and Optimization of Grid-Integrated Energy Systems for the Demand-Side Management of Data Centers, 2021 - 2023

Metrics

Publication: 14

Citation (WoS): 277

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H-Index (Scopus): 9