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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-2595-2020

ScopusID: 57201861263

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Education Information

Doctorate, Istanbul Technical University, Enerji Enstitüsü, Enerji Bilim ve Teknoloji, Turkey 2019 - Continues

Postgraduate, Istanbul Technical University, Enerji Enstitüsü, Enerji Bilim ve Teknoloji, Turkey 2016 - 2019

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey 2015 - 2019

Undergraduate, Istanbul Technical University, Elektrik-Elektronik, Kontrol Ve Otomasyon Mühendisliği, Turkey 2009 - 2015

Dissertations

Postgraduate, Hibrit büyük patlama büyük çöküş-nelder mead algoritması kullanarak solar hücre parametre kestirimi, Istanbul Technical University, Enerji Enstitüsü, 2018

Postgraduate, Türkiye'nin farklı iklim bölgeleri için optimal fotovoltaik panel eğim açılarının belirlenmesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2018

Research Areas

Engineering and Technology

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. **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)

III. **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)

IV. **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)

V. **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)

Refereed Congress / Symposium Publications in Proceedings

I. **Feasibility Analysis of Domestic Electricity Production from Rooftop Photovoltaic Systems in Three Provinces of Turkey**

DUMAN A. C., DEVECİ K., GÖNÜL Ö., GÜLER Ö.

International Conference on Sustainable Energy and Energy Calculations, 12 - 14 April 2019

II. **Solar Cell Parameter Estimation using Hybrid Nelder-Mead and Big Bang Big Crunch Optimization Algorithms**

GÖNÜL Ö., EROL O. K.

7th International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2018), 20 - 24 June 2018

III. **Mixed-integer linear programming based load scheduling optimization for smart homes in Turkey**

DUMAN A. C., GÜLER Ö., GÖNÜL Ö., DEVECİ K.

The 15th International Conference of Young Scientists on Energy Issues(CYSENI 2018), Kaunas, Lithuania, 23 - 25 May 2018

IV. **Residential Load Scheduling Optimization for Demand-Side Management under Time-of-Use Rate**

DUMAN A. C., GÜLER Ö., DEVECİ K., GÖNÜL Ö.

2018 6th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2018, 25 - 26 April 2018

V. **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

VI. **Design, Implementation and Control of Dual Axis Self Balancing Inverted Pendulum using Reaction Wheels**

TÜRKMEN A., Korkut M. Y., ERDEM M., GÖNÜL Ö., SEZER V.

ELECO 2017 10th International Conference on Electrical and Electronics Engineering, 30 November - 02 December 2017

VII. **Reaksiyon Tekerleri ile Kendini İki Eksende Dengeleyebilen Ters Sarkaç Tasarımı, Üretimi ve Kontrolü**

TÜRKMEN A., KORKUT M. Y., ERDEM M., GÖNÜL Ö., SEZER V.

Otomatik Kontrol Ulusal Toplantısı TOK 2017, Turkey, 21 - 23 September 2017

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: 16

Citation (WoS): 68

Citation (Scopus): 241

H-Index (WoS): 4

H-Index (Scopus): 7

Non Academic Experience

ACROME Robotik Mekatronik Sistemler