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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-6369-2019

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Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2018 - Continues

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2015 - 2018

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2009 - 2014

Dissertations

Postgraduate, PV system connected to grid through DC/DC buck-boost converter and DC/AC unipolar switching inverter, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2018

Research Areas

Electronic, Energy, Power Electronics

Academic Titles / Tasks

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2014 - Continues

Academic and Administrative Experience

Internship Committee Member, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2022 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. Channel current analysis of GaN HEMTs with source sense pin in DC/DC boost converters

Turan Azizoğlu B., Balıkcı A., Akpınar E., Durbaba E.

JOURNAL OF POWER ELECTRONICS, vol.21, no.4, pp.713-723, 2021 (SCI-Expanded)

II. **Single-Phase Transformerless Photovoltaic Inverter With Suppressing Resonance in Improved H6**

Akpınar E., Balıkcı A., Durbaba E., Turan Azizoğlu B.

IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.34, no.9, pp.8304-8316, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Dead-time Effect on the Leakage Current of GridConnected Single-Phase Photovoltaic Inverter**

Balıkcı A., Akpınar E., Durbaba E., Kocamış A. E., Turan Azizoğlu B.

2021 IEEE Electrical Power and Energy Conference (EPEC), Toronto, Canada, 22 October 2021

II. **Comparing the Efficiency of Cascode GaN and Enhancement GaN in Boost Converter of PV System**

Turan Azizoğlu B., Balıkcı A., Durbaba E., Akpınar E., Kocamış A. E.

14th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), ELECTR NETWORK, 8 - 10 July 2020, pp.340-345

III. **Fast Prototyping of A Photovoltaic System by Using DSP in MATLAB Simulation Loop**

DURBABA E., AKPINAR E., BALIKCI A., TURAN AZİZOĞLU B., Kocamış A. E.

45th Annual Conference of the IEEE Industrial Electronics Society (IECON), Lisbon, Portugal, 14 - 17 October 2019, pp.1768-1773

IV. **Single-Phase STATCOM with Multilevel U-Cell Converter**

BALIKCI A., AKPINAR E., DURBABA E.

2017 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.340-344

V. **Efficiency Calculation of Inverter for PV Applications Using MATLAB and SPICE**

BALIKCI A., TURAN AZİZOĞLU B., DURBABA E., AKPINAR E.

International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 25 - 27 May 2017, pp.593-598

Supported Projects

Akpınar E., TUBITAK Project, Yük Dengelemesi Ve Reaktif Güç Kompanzasyonu İçin Pv Sistem Destekli Modüler Çok Seviyeli Dönüştürücü Tasarımı, 2021 - 2022

Akpınar E., Balıkcı A., Turan Azizoğlu B., TUBITAK Project, Enerji Verimliliği Yüksek Güneş Enerjisi Dönüşüm Sistemi Tasarımı Ve Modellenmesi, 2018 - 2020

Patent

Akpınar E., Balıkcı A., Turan Azizoğlu B., Durbaba E., A single phase inverter for photovoltaic panels, Patent, CHAPTER H Electricity, The Invention Registration Number: WO2020068022A2 , Standard Registration, 2020

Scientific Refereeing

IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, SCI Journal, April 2022

IET RENEWABLE POWER GENERATION, National Scientific Refreed Journal, October 2020

IET RENEWABLE POWER GENERATION, SCI Journal, September 2020

IET RENEWABLE POWER GENERATION, SCI Journal, July 2020

IET RENEWABLE POWER GENERATION, SCI Journal, May 2020

IET RENEWABLE POWER GENERATION, SCI Journal, February 2020

IET RENEWABLE POWER GENERATION, SCI Journal, December 2019

IET POWER ELECTRONICS, SCI Journal, June 2019

Metrics

Publication: 7

Citation (WoS): 32

Citation (Scopus): 35

H-Index (WoS): 2

H-Index (Scopus): 2