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Education Information

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2012 - 2015
Undergraduate, Cukurova University, Mühendislik-Mimarlık, Elektrik-Elektronik Mühendisliği, Turkey 2007 - 2012

Foreign Languages

English, C1 Advanced

Research Areas

Electrical and Electronics Engineering, Energy, Power System Analysis, Renewable energy, Power Electronics, Power Converters, Power Quality, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Cukurova University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2015 - Continues
Research Assistant, Adiyaman University, Faculty Of Engıneerıng, Elektrik-Elektronik Mühendisliği, 2013 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Improved instantaneous power theory based current harmonic extraction for unbalanced electrical grid conditions**
BÜYÜK M., Inci M., TAN A., TÜMAY M.
ELECTRIC POWER SYSTEMS RESEARCH, vol.177, 2019 (SCI-Expanded)

II. **Improved adaptive notch filter-based active damping method for shunt active power filter with LCL-filter**
BÜYÜK M., TAN A., Tumay M.
ELECTRICAL ENGINEERING, vol.100, no.3, pp.2037-2049, 2018 (SCI-Expanded)

III. **PERFORMANCE COMPARISON OF VOLTAGE SAG/SWELL DETECTION METHODS IMPLEMENTED IN CUSTOM POWER DEVICES**

BÜYÜK M., Inci M., TÜMAY M.
REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, vol.62, no.2, pp.129-133, 2017 (SCI-Expanded)

IV. **Topologies, generalized designs, passive and active damping methods of switching ripple filters for voltage source inverter: A comprehensive review**
BÜYÜK M., TAN A., TÜMAY M., BAYINDIR K. Ç.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.62, pp.46-69, 2016 (SCI-Expanded)

Articles Published in Other Journals

I. **MULTIPURPOSE COMPENSATION SCHEME FOR VOLTAGE SAG/SWELL AND SELECTIVE HARMONICS ELIMINATION IN DISTRIBUTION SYSTEMS**
Inci M., BÜYÜK M., TAN A., Bayindir K. C., TÜMAY M.
ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol.16, no.1, pp.71-80, 2018 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Performance Comparision of PI and PIHC controllers for SAPF with LCL filter**
BÜYÜK M., TAN A., CUMA M. U., TÜMAY M.
EurasianSciEnTech 2018, 14 - 16 November 2018

II. **Survey of Inverter Topologies Implemented in Dynamic Voltage Restorers**
Inci M., BÜYÜK M., TAN A., BAYINDIR K. Ç., TÜMAY M.
4th International Conference on Control, Decision and Information Technologies (CoDIT), Barcelona, Spain, 5 - 07 April 2017, pp.1141-1146

III. **MVT Controlled Voltage Restorer for Fault-Ride Through Capability**
Inci M., BÜYÜK M., TAN A., BAYINDIR K. Ç., Tumay M.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.380-385

IV. **A Notch Filter based Active Damping of LLCL Filter in Shunt Active Power Filter**
BÜYÜK M., TAN A., Inci M., TÜMAY M.
19th International Symposium on Power Electronics (Ee), Novi-Sad, Serbia And Montenegro, 19 - 21 October 2017

V. **EPLL based Controller for Voltage Harmonic Mitigation in Grid Connected Wind Systems**
Inci M., BÜYÜK M., BAYINDIR K. Ç., TÜMAY M.
4th International Conference on Control, Decision and Information Technologies (CoDIT), Barcelona, Spain, 5 - 07 April 2017, pp.1157-1161

VI. **Capacitor Current Feedback Active Damping for Shunt Active Power Filter with Output LLCL Filter**
BÜYÜK M., Inci M., TAN A., Tumay M.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.376-379

VII. **The Performance Improvement of DVR Based Grid Connected Wind Energy Systems for Sustainable Energy**
BÜYÜK M., İNCİ M., TAN A., TÜMAY M.
International Conference on Sustainable Development, 19 - 23 October 2016

VIII. **An Overview of Active Damping Methods for Grid Connected Inverters**
BÜYÜK M., İNCİ M., TAN A., TÜMAY M.
International Energy and Engineering Conference, 13 - 14 October 2016

IX. **Modified SPWM to reduce switching losses in Standby UPS Systems for Sustainable Energy**
İNCİ M., BÜYÜK M., TÜMAY M.
International Conference on Sustainable Development 2016, Skopje, Macedonia, 19 - 23 October 2016, pp.11-17

X. **Improved SRF to Extract Harmonics in Active Power Filters for Single Phase Systems**
İNCİ M., BÜYÜK M., TÜMAY M.
International Conference on Sustainable Development 2016, Skopje, Macedonia, 19 - 23 October 2016, pp.30-34

XI. **A Comprehensive Review of Power Quality Problems and Solution Techniques in Grid Connected Wind Systems**
İNCİ M., BÜYÜK M., TÜMAY M.
International Conference on Sustainable Development 2016, Skopje, Macedonia, 19 - 23 October 2016, pp.18-23

XII. **FFT based Reference Signal Generation to Compensate Simultaneous Voltage Sag/Swell and Voltage Harmonics**
Inci M., BÜYÜK M., TÜMAY M.
IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC), Florence, Italy, 6 - 10 June 2016

XIII. **Performance Evaluation of LLCL Filter for Active Power Filter**
BÜYÜK M., Inci M., TÜMAY M.
IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC), Florence, Italy, 6 - 10 June 2016

XIV. **Analysis and Comparison of Passive Damping Methods for Shunt Active Power Filter with Output LCL Filter**
BÜYÜK M., TAN A., BAYINDIR K. Ç., TÜMAY M.
2015 International Aegean Conference on Electrical Machines and Power Electronics and 2015 Electromotion Joint Conference - ACEMP 2015, Antalya, Turkey, 2 - 04 September 2015, pp.434-440

XV. **Analysis and Comparison of Passive Damping Methods for Shunt Active Power Filter with Output LCL Filter**
BÜYÜK M., TAN A., BAYINDIR K. Ç., TÜMAY M.
IEEE International Conference ACEMP_OPTIM-ELECTROMOTION 2015 Side Turkey, Antalya, Turkey, 2 - 04 September 2015, pp.434-440

XVI. **ANALYSIS AND COMPARISON OF PASSIVE DAMPING METHODS FOR SHUNT ACTIVE POWER FILTER WITH OUTPUT LCL FILTER**
BÜYÜK M., TAN A., BAYINDIR K. Ç., TÜMAY M.
Int Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / Int Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Int Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Side, Turkey, 2 - 04 September 2015, pp.434-440

XVII. **Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL?lerin Performans Değerlendirmesi**
DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BÜYÜK M., TERCİYANLI A., BAYINDIR K. Ç., TÜMAY M.
5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9

XVIII. **Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL?lerin Performans Değerlendirmesi**
DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BÜYÜK M., TERCİYANLI A., BAYINDIR K. Ç., TÜMAY M.
5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9

Supported Projects

TÜMAY M., BÜYÜK M., Project Supported by Higher Education Institutions, Design and Implementation of Converter based Active Damper for Shunt Active Power Filter with Output LCL Filter, 2019 - 2020

İNCİ M., BÜYÜK M., TAN A., Project Supported by Higher Education Institutions, Gerilim Çukuru ve Tepesi Tespit Yöntemlerinin Uygulamalı Performans Analizi, 2017 - 2018

TÜMAY M., TAN A., BÜYÜK M., İNCİ M., Project Supported by Higher Education Institutions, LLCL Çıkış Filtreli Şönt Aktif Güç Filtreleri için Aktif Sönümleme Yöntemlerinin İncelenmesi ve Uygulaması, 2017 - 2018

TAN A., İNCİ M., BÜYÜK M., TÜMAY M., Project Supported by Higher Education Institutions, Survey of Inverter Topologies Implemented in Dynamic Voltage Restorers, 2017 - 2017

TAN A., İNCİ M., BÜYÜK M., Project Supported by Higher Education Institutions, Dinamik Gerilim İyileştiricilerde Gerilim

Tespit Metotlarının Karşılaştırılması ve Anahtarlama Dalgacık Filtrelerinin İncelenmesi, 2016 - 2016
TÜMAY M., BÜYÜK M., İNCİ M., Project Supported by Higher Education Institutions, Üç Faz Üç Tel Paralel Aktif Güç Filtreleri için LCL Çıkış Filtresinin Pasif ve Aktif Damping Metotlarının İncelenmesi ve Analizi, 2015 - 2016

Scientific Refereeing

IET Power Electronics, SCI Journal, December 2016
IET Generation, Transmission and Distribution, SCI Journal, December 2016
IET Power Electronics, SCI Journal, December 2016
Renewable and Sustainable Energy Reviews, SCI Journal, November 2016
IET Power Electronics, SCI Journal, October 2016
IET Power Electronics, SCI Journal, July 2016
ACEMP - OPTIM - ELECTROMOTION JOINT CONFERENCE, Other journals, August 2015

Metrics

Publication: 23
Citation (WoS): 60
Citation (Scopus): 63
H-Index (WoS): 4
H-Index (Scopus): 3

Non Academic Experience

ENDOKS ENERJİ SİSTEMLERİ