

# **Arş. Gör. TUĞÇE DEMİRDELEN**

## **Kişisel Bilgiler**

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### **Uluslararası Araştırmacı ID'leri**

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Publons / Web Of Science ResearcherID: AAJ-4693-2021

Yoksis Araştırmacı ID: 26010

## **Eğitim Bilgileri**

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Türkiye 2013 - Devam Ediyor  
Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Türkiye 2011 - 2013

Lisans Çift Anadal, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2008 - 2011

Lisans, Çukurova Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, Türkiye 2006 - 2011

## **Yabancı Diller**

İngilizce, B2 Orta Üstü

## **Yaptığı Tezler**

Yüksek Lisans, Modeling and Analysis of Multilevel Parallel Hybrid Active Power Filter, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2013

## **Araştırma Alanları**

Elektrik-Elektronik Mühendisliği, Enerji, Güç Elektroniği, Elektrik Makineleri Kuramı ve Tasarımı, Güç Aygıtları (trafolar, reaktörler, şalt teçhizatı v.b.), Güç Çevirgeçeri, Güç Kalitesi, Mühendislik ve Teknoloji

## **Akademik Unvanlar / Görevler**

Araştırma Görevlisi, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2011 - Devam Ediyor

Araştırma Görevlisi, Karamanoğlu Mehmetbey Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2011 - 2011

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Performance evaluation of phase-shifting transformer for integration of renewable energy sources**  
Sakallioglu B., Esenboga B., DEMİRDELEN T., TÜMAY M.

- ELECTRICAL ENGINEERING, cilt.102, sa.4, ss.2025-2039, 2020 (SCI-Expanded)
- II. Green touch for hydrogen production via alkaline electrolysis: The semi-flexible PV panels mounted wind turbine design, production and performance analysis  
DEMİRDELEN T., Ekinci F., Mert B. D., Karasu I., Tumay M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.18, ss.10680-10695, 2020 (SCI-Expanded)
- III. A novel hybrid metaheuristic optimization method to estimate medium-term output power for horizontal axis wind turbine  
EKINCI F., Demirdelen T., AKSU I. O., AYGÜL K., ESENBOGA B., BİLGİLİ M.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, cilt.233, sa.5, ss.646-658, 2019 (SCI-Expanded)
- IV. The role of hydropower installations for sustainable energy development in Turkey and the world  
BİLGİLİ M., BILIRGEN H., ÖZBEK A., EKINCI F., Demirdelen T.  
RENEWABLE ENERGY, cilt.126, ss.755-764, 2018 (SCI-Expanded)
- V. A review of magnetically controlled shunt reactor for power quality improvement with renewable energy applications  
Tumay M., DEMİRDELEN T., Bal S., KAYAALP R. İ., DOĞRU B., AKSOY M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.77, ss.215-228, 2017 (SCI-Expanded)
- VI. Simulation modelling and analysis of modular cascaded multilevel converter based shunt hybrid active power filter for large scale photovoltaic system interconnection  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
SIMULATION MODELLING PRACTICE AND THEORY, cilt.71, ss.27-44, 2017 (SCI-Expanded)

## **Düger Dergilerde Yayınlanan Makaleler**

- I. SHORT TERM RENEWABLE ENERGY STRATEGIC VISION IN THE WORLD  
BİLGİLİ M., EKİNCİ F., ÖZBEK A., DEMİRDELEN T.  
International Journal on Technical and Physical Problems of Engineering, cilt.51, ss.111-123, 2022 (Hakemli Dergi)
- II. SHORT-TERM WIND SPEED ESTIMATION WITH ANN BASED HYBRID OPTIMIZATION METHODS IN ÇUKUROVA REGION  
ESENBOĞA B., AKSU İ. Ö., EKİNCİ F., DEMİRDELEN T.  
Applied Research in Studies and Practice, cilt.15, sa.1, ss.16-23, 2019 (Hakemli Dergi)
- III. Doğrusal Yükleri Besleyen Şebeke Bağlantılı PV/Akü Sisteminin Tasarımı ve Tam/Kısmi Gölgelenme Durumlarında Performans Analizi  
AYGÜL K., DEMİRDELEN T., TÜMAY M.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, cilt.37, sa.2, ss.97-111, 2019 (Hakemli Dergi)
- IV. A heuristic approach for volume calculation of oil-type power transformers: firefly algorithm  
DEMİRDELEN T.  
Majlesi Journal of Mechatronic Systems, cilt.6, sa.4, ss.41-46, 2018 (Hakemli Dergi)
- V. Kuru Tip Transformatör Optimizasyonuna Yeni Bir Yaklaşım: Ateş Böceği Algoritması  
DEMİRDELEN T.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, cilt.33, sa.1, ss.87-96, 2018 (Hakemli Dergi)
- VI. Modular Cascaded Multilevel Inverter Based Shunt Hybrid Active Power Filter For Selective Harmonic and Reactive Power Compensation Under Distorted Unbalanced Grid Voltage Conditions  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
Engineering, Technology Applied Science Research, cilt.6, sa.5, ss.1133-1138, 2016 (ESCI)
- VII. Comparison of Different Phase-Shift Control Methods at Isolated Bidirectional DC-DC Converter  
KAYAALP R. İ., DEMİRDELEN T., KÖROĞLU T., CUMA M. U., Bayındır K. Ç., TÜMAY M.  
INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, ELECTRONICS AND COMPUTERS, cilt.4, sa.3, ss.68-73, 2016 (Hakemli Dergi)
- VIII. Modeling and Analysis of a Multilevel Parallel Hybrid Active Power Filter

- DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, cilt.6, sa.3, ss.976-981, 2016 (ESCI)
- IX. Fuzzy Logic Controlled DC-DC Converter Based Dynamic Voltage Restorer  
Inci M., DEMİRDELEN T., TÜMAY M.  
JOURNAL OF ELECTRICAL SYSTEMS, cilt.11, sa.4, ss.367-375, 2015 (ESCI)
- X. Comparison of Three, Five and Seven Levels Diode Clamped Multilevel Inverter Topologies based Shunt Hybrid Active Power Filter for Harmonics Compensation with Equal DC Link  
DEMİRDELEN T., İNCİ M., TÜMAY M.  
International Journal of Applied Mathematics, Electronics and Computers (IJAMEC), cilt.4, sa.1, ss.24-30, 2015  
(Hakemli Dergi)
- XI. Modelling and Analysis of Bidirectional DC-DC Converter  
KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
International Educative Research Foundation and Publisher, 2015 (Hakemli Dergi)
- XII. Performance Analysis of Closed Loop and Open Loop Control Methods in Dynamic Voltage Restorer  
İNÇİ M., DEMİRDELEN T., TÜMAY M.  
International Journal of Engineering Research, cilt.11, ss.582-585, 2015 (Hakemli Dergi)
- XIII. PARALLEL HYBRID ACTIVE POWER FILTER FOR STATIC REACTIVE POWER AND HARMONICS COMPENSATION WITH SOGI-PLL  
DEMİRDELEN T.  
International Journal on Technical and Physical Problems of Engineering (IJTPE) Journal, cilt.6, sa.18, ss.148-153, 2014 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- I. A New Method for Generating Short-Term Power Forecasting Based on Artificial Neural Networks and Optimization Methods for Solar Photovoltaic Power Plants  
DEMİRDELEN T., AKSU I. O., ESENBOGA B., AYGÜL K., EKİNCİ F., BİLGİLİ M.  
Solar Photovoltaic Power Plants, Precup R.E, Kamal T., Zulqadar Hassan S., Editör, Springer, Singapore, -, ss.165-189, 2019
- II. A New Method for Generating Short-Term Power Forecasting Based on Artificial Neural Networks and Optimization Methods for Solar Photovoltaic Power Plants  
DEMİRDELEN T., AKSU İ. Ö., ESENBOĞA B., AYGÜL K., EKİNCİ F., BİLGİLİ M.  
Solar Photovoltaic Power PlantsAdvanced Control and Optimization Techniques, Radu-Emil Precup, Tariq Kamal, Syed Zulqadar Hassan, Editör, Springer Nature, ss.165-187, 2019

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Lightning Electric Field Analysis of a Transformer Using ANSYS Maxwell  
BAL S., DEMİRDELEN T., TÜMAY M.  
ISMSIT 2019, International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Türkiye, 11 - 13 Ekim 2019
- II. Three-Phase Distribution Transformer Modeling and Electromagnetic Transient Analysis Using ANSYS Maxwell  
BAL S., DEMİRDELEN T., TÜMAY M.  
ISMSIT 2019, International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Türkiye, 11 - 13 Ekim 2019
- III. SHORT-TERM WIND SPEED ESTIMATION WITH ANN BASED HYBRID OPTIMIZATION METHODS INÇUKUROVA REGION  
ESENBOĞA B., AKSU İ. Ö., EKİNCİ F., DEMİRDELEN T.

scedu 2019, 10 - 11 Ekim 2019

- IV. **Experimental Partial Shading Analysis of Solar Photovoltaic (PV) Panels in Çukurova Region**  
EKİNCİ F., AYGÜL K., ESENBOĞA B., YAVUZDEĞER A., DEMİRDELEN T.  
IMSEC 4th International Mediterranean Science and Engineering Congress, Antalya, Türkiye, 25 - 27 Nisan 2019
- V. **Kısımlı Gölgelenme Durumundaki Fotovoltaik Panellerin Maksimum Güç Noktası Takibi için Sistem Tasarımı ve Kontrolü**  
AYGÜL K., ESENBOĞA B., EKİNCİ F., DEMİRDELEN T., TÜMAY M.  
XVI. Otomatik Kontrol Seminer ve Sergisi, Adana, Türkiye, 24 - 25 Nisan 2019
- VI. **Comparison of Different Type Electrodes'xx Performances in Solar Assisted Hydrogen Production for Off-Grid Areas**  
DOĞRU MERT B., EKİNCİ F., DEMİRDELEN T.  
4th IMSEC, Türkiye, 25 - 27 Nisan 2019, ss.278
- VII. **Üç Fazlı Yağlı Tip Transformatörün ANSYS Maxwell ile Modellemesi ve Elektromanyetik Analizi**  
BAL S., DEMİRDELEN T., TÜMAY M.  
XVI. Otomatik Kontrol Seminer ve Sergisi, Adana, Türkiye, 24 - 25 Nisan 2019
- VIII. **Tek Faz Bir Transformatörün 2B Sonlu Elemanlar Analizi**  
ESENBOĞA B., AYGÜL K., DEMİRDELEN T., TÜMAY M.  
GÜC SİSTEMLERİ KONFERANSI, Türkiye, 15 - 16 Kasım 2018
- IX. **Microcogeneration Systems Based on Renewable Energy Sources : A General Aspect**  
EKİNCİ F., DEMİRDELEN T., ESENBOĞA B., BİLGİLİ M., Hoplamaz H.  
INTERNATIONAL GAP RENEWABLE ENERGY AND ENERGY EFFICIENCY CONGRESS (GAPYENEV 2018), 10 - 12 Mayıs 2018
- X. **A Comparative Survey of Battery Energy Storage Systems for Renewable Energy Sources**  
AYGÜL K., ESENBOĞA B., KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
IMCOFE 2018, 24 - 26 Temmuz 2018
- XI. **Short-Term Generated Power Forecasting Based On Artificial Neural Network In Photovoltaic (Pv) Power Plants**  
ESENBOĞA B., AKSU İ. Ö., AYGÜL K., DEMİRDELEN T., EKİNCİ F.  
IMCOFE 2018, 24 - 26 Temmuz 2018
- XII. **Partial Shading Condition Controller for Solar Panels: An Overview**  
EKİNCİ F., DEMİRDELEN T., AYGÜL K., BİLGİLİ M.  
Uluslararası GAP Yenilenebilir Enerji ve Enerji Verimliliği Kongresi 2018, 10 - 12 Mayıs 2018
- XIII. **Partial Shading Condition Controllers for Solar Panels: An Overview**  
EKİNCİ F., DEMİRDELEN T., AYGÜL K., BİLGİLİ M.  
GAPYENEV 2018, 10 - 12 Mayıs 2018, ss.62-65
- XIV. **A GENERAL OVERVIEW OF OPTIMIZATION METHODS USED IN ELECTRICAL MACHINES APPLICATIONS**  
BAL S., AKSU İ. O., DEMİRDELEN T.  
7th International Conference on Advanced Technologies, Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XV. **3D DRY TYPE TRANSFORMER TECHNOLOGY**  
BAL S., DEMİRDELEN T., TÜMAY M.  
7th International Conference on Advanced Technologies, Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XVI. **A REVIEW ON THE FORECASTING OF SOLAR GENERATED POWER**  
DEMİRDELEN T., EKİNCİ F., SARAÇ EŞSİZ E., AKSU İ. Ö., BİLGİLİ M.  
ICAT'xx18, 28 Nisan - 01 Mayıs 2018
- XVII. **A REVIEW OF POWER QUALITY PROBLEM CLASSIFICATION USING ARTIFICIAL NEURAL NETWORKS**  
BAL S., AKSU İ. O., DEMİRDELEN T.  
7th International Conference on Advanced Technologies, Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XVIII. **SPECIAL PURPOSE TRANSFORMERS**  
BAL S., DEMİRDELEN T., TÜMAY M.  
7th International Conference on Advanced Technologies, Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018

- XIX. **SPECIAL PURPOSE TRANSFORMER**  
BAL S., DEMİRDELEN T., TÜMAY M.  
7th International Conference on Advanced Technologies, Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XX. **SHORT TERM WIND SPEED PREDICTION A COMPREHENSIVE REVIEW**  
DEMİRDELEN T., EKİNÇİ F., SARAÇ EŞSİZ E., AKSU İ. Ö., BİLGİLİ M.  
ICAT 2018, Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XXI. **Micro-cogeneration: A Review Of The Present State Of The Art**  
EKİNÇİ F., DEMİRDELEN T.  
2 nd International Mediterranean Science And Engineering Congress, 25 - 27 Kasım 2017
- XXII. **Fotovoltaik/termal (pv/t) Sistemler: Isı Pompası Uygulaması Üzerine Bir Derleme**  
EKİNÇİ F., DEMİRDELEN T.  
2nd International Mediterranean Science And Engineering Congress, 25 - 27 Kasım 2017
- XXIII. **THE THREE DIMENSIONAL ELECTROMAGNETICANALYSIS OF POWER TRANSFORMERS BASED ON ANSYS**  
DEMİRDELEN T., BAL S., TÜMAY M., CUMA M. U., CİCİBAŞ A., KÖSEOĞLU K., AKSOY M.  
ICAT RIGA, 6 International Conference on Advanced Technology Sciences, Riga, Letonya, 12 - 15 Eylül 2017
- XXIV. **Comparison of Harmonics at Phase-Shift Controllers of Isolated Bidirectional DC-DC Converter for DCGrid Systems**  
KAYAALP R. İ., DEMİRDELEN T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
6th International Conference on Advanced Technology Sciences, Riga, Letonya, 12 - 15 Eylül 2017
- XXV. **Smart Transformers for Integration of Renewable Energy Sources**  
DEMİRDELEN T., TÜMAY M., BAL S., CUMA M. U., CİCİBAŞ A., KÖSEOĞLU A. K., AKSOY M.  
7th International Symposium on Energy, Manchester, Birleşik Krallık, 13 - 17 Ağustos 2017
- XXVI. **Wind Energy Source based New Generation ElectricGenerator**  
EKİNÇİ F., DEMİRDELEN T., FIRAT E., BİLGİLİ M.  
6th International Conference on Advanced Technology Sciences, Riga, Letonya, 12 - 15 Eylül 2017
- XXVII. **COMPARATIVE PERFORMANCE EVALUATION OF MULTI SOGI PLL FOR MINIMUM SETTLING TIME AND LOW UNIT VECTORDISTORTION UNDER DISTORTED CONDITIONS**  
DEMİRDELEN T., özdemir t., TÜMAY M.  
5th International Conference on Advanced Technology Sciences, İstanbul, Türkiye, 9 - 12 Mayıs 2017
- XXVIII. **A Fuzzy Neural Network Approach to Estimate PMSG based and DFIG based Wind Turbines' Power Generation**  
Demirdelen T., Bakmaz E., TÜMAY M.  
7th International Conference on Innovative Computing Technology (INTECH), Luton, Birleşik Krallık, 16 - 18 Ağustos 2017, ss.101-106
- XXIX. **Manyetik Kontrollü Şönt Reaktör için Uygulanan Kontrol Yöntemlerini Literatür İncelemesi**  
TÜMAY M., DEMİRDELEN T., BAL S., KAYAALP R. İ., doğru b., aksoy m.  
ELECO 2016, Türkiye, 1 - 03 Aralık 2016, ss.96-100
- XXX. **Phase Shifting Transformers A Survey On Control And Optimization Strategies**  
TÜMAY M., DEMİRDELEN T., BAL S., doğru b., cicibaş a., Köseoğlu a., aksoy m.  
4th International Conference on Advanced Technology Sciences, ROMA, 23 - 25 Kasım 2016
- XXXI. **Faz Kaydırıcı Transformatörlerin Dünyadaki Durumu ve Uygulama Alanlarının Literatür İncelemesi**  
TÜMAY M., DEMİRDELEN T., BAL S., doğru b., cicibaş a., köseoğlu k., aksoy m.  
Güç Sistemleri Konferansı (Cigre), Türkiye, 15 - 16 Kasım 2016
- XXXII. **A novel fuzzy logic control for bidirectional DC-DC converter and comparison with dual phase-shift control method in medium voltage applications**  
KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
2016 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, CIVEMSA 2016, Budapest, Macaristan, 27 - 29 Temmuz 2016
- XXXIII. **A Novel Modular Multilevel Bidirectional DC DC Converter with Dual Phase Shift Control Method in Medium Voltage Applications**

- KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
International Symposium on Fundamentals of Electrical Engineering, BÜKREŞ, Romanya, 30 Haziran - 02 Temmuz 2016
- XXXIV. **A Novel Control Scheme for Dynamic Reactive Power Compensation Multilevel Inverter Based Shunt Hybrid Active Power Filter**  
DEMİRDELEN T., TÜMAY M.  
IEEE 2016 UKSim-AMSS 18th International Conference on Computer Modelling and Simulation, Cambridge, Birleşik Krallik, 6 - 08 Nisan 2016, ss.217-223
- XXXV. **A Novel Control Scheme for Dynamic Reactive Power Compensation Multilevel Inverter Based Shunt Hybrid Active Power Filter**  
DEMİRDELEN T., TÜMAY M.  
IEEE 2016 UKSim-AMSS 18th International Conference on Computer Modelling and Simulation, Cambridge, Birleşik Krallik, 6 - 08 Nisan 2016, ss.217-223
- XXXVI. **Review of The Control Strategies Applied to Magnetically Controlled Shunt Reactor**  
TÜMAY M., DEMİRDELEN T., BAL S., KAYAALP R. İ., Dogru B., Aksoy M.  
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Türkiye, 1 - 03 Aralık 2016, ss.96-100
- XXXVII. **A Power Rating and Application Survey of Magnetically Controlled Shunt Reactor**  
TÜMAY M., DEMİRDELEN T., BAL S., KAYAALP R. İ., Dogru B., Aksoy M.  
10th UKSim-AMSS European Modelling Symposium on Computer Modelling and Simulation (EMS), Pisa, İtalya, 28 - 30 Kasım 2016, ss.111-116
- XXXVIII. **Adaptive Input Voltage Prediction Method Based on ANN for Bidirectional DC-DC Converter**  
KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
2nd International Conference on Systems Informatics, Modelling and Simulation (SIMS), Riga, Letonya, 1 - 03 Haziran 2016, ss.35-40
- XXXIX. **Performance Investigation of High Level Modular Multilevel Inverter based Shunt Hybrid Active Power Filter**  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
International Symposium on Fundamentals of Electrical Engineering (ISFEE), Romanya, 30 Haziran - 02 Temmuz 2016
- XL. **PSO - PI Based DC Link Voltage Control Technique for Shunt Hybrid Active Power Filter**  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
2nd International Conference on Systems Informatics, Modelling and Simulation (SIMS), Riga, Letonya, 1 - 03 Haziran 2016, ss.97-102
- XLI. **A Novel Control Scheme for Dynamic Reactive Power Compensation Multilevel Inverter Based Shunt Hybrid Active Power Filter**  
DEMİRDELEN T., TÜMAY M.  
18th UKSim-AMSS International Conference on Computer Modelling and Simulation (UKSim), Cambridge, Kanada, 6 - 08 Nisan 2016, ss.217-223
- XLII. **A New Control Approach for Shunt Hybrid Active Power Filter to Compensate Harmonics and Dynamic Reactive Power with Grid Interconnection**  
DEMİRDELEN T., İNCİ M., TÜMAY M.  
A New Control Approach for Shunt Hybrid Active Power Filter to Compensate Harmonics and Dynamic Reactive Power with Grid Interconnection, Madrid, İspanya, 6 - 08 Ekim 2015, ss.247-253
- XLIII. **The Analysis and Performance Results of Bidirectional DC-DC Converter Based Dynamic Voltage Restorer under Voltage Sag/Swell Conditions**  
İNCİ M., DEMİRDELEN T., TÜMAY M.  
UKSim-AMSS 9th European Modelling Symposium on Mathematical Modelling and Computer Simulation, Madrid, İspanya, 6 - 08 Ekim 2015, ss.254-259
- XLIV. **COMPARISON OF THREE FIVE AND SEVEN LEVELS DIODE CLAMPED MULTILEVEL INVERTER TOPOLOGIES BASED SHUNT HYBRID ACTIVE POWER FILTER FOR HARMONICS COMPENSATION WITH**

**EQUAL DC LINK**

DEMİRDELEN T., İNCİ M., TÜMAY M.

ICAT 2015, 4 - 07 Ağustos 2015

- XLV. **Comparison of Different Phase-Shift Control Methods at Isolated Bidirectional DC-DC Converter**

KAYAALP R. İ., DEMİRDELEN T., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

International Conference on Advanced Technology and Sciences, Antalya, Türkiye, 4 - 07 Ağustos 2015, ss.273-279

- XLVI. **Performance Investigation of Shunt Hybrid Active Power Filter with A Synchronous Reference Frame Based Controller**

TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, 2015, Aachen, Almanya, 22 - 25 Haziran 2015, ss.391-398

- XLVII. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**

KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Almanya, 22 - 25 Haziran 2015, ss.1-6

- XLVIII. **Performance Investigation of Shunt Hybrid Active Power Filter with a Synchronous Reference Frame Based Controller**

TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Almanya, 22 - 25 Haziran 2015, ss.1-8

- XLIX. **A Novel Low Cost Sag/Swell Generator**

İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems - PEDG 2015, Aachen, Almanya, 22 - 25 Haziran 2015, ss.239-242

- L. **A Novel Low Cost Sag/Swell Generator**

İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Almanya, 22 - 25 Haziran 2015, ss.1-4

- LI. **Performance Investigation of Shunt Hybrid Active Power Filter with A Synchronous Reference Frame Based Controller**

TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, 2015, Aachen, Almanya, 22 - 25 Haziran 2015, ss.391-398

- LII. **Performance Investigation of Shunt Hybrid Active Power Filter with A Synchronous Reference Frame Based Controller**

TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, 2015, Aachen, Almanya, 22 - 25 Haziran 2015, ss.391-398

- LIII. **Performance Investigation of Shunt Hybrid Active Power Filter with a Synchronous Reference Frame Based Controller**

TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Almanya, 22 - 25 Haziran 2015, ss.1-8

- LIV. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**

KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems - PEDG 2015, Aachen, Almanya, 22 - 25 Haziran 2015, ss.111-116

- LV. **A Novel Low Cost Sag/Swell Generator**

İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

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- LVI. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**  
 KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
 The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Almanya, 22 - 25 Haziran 2015, ss.1-6
- LVII. **PERFORMANCE INVESTIGATION OF SHUNT HYBRID ACTIVE POWER FILTER WITH A SYNCHRONOUS REFERENCE FRAME BASED CONTROLLER**  
 TAN A., KÖROĞLU T., DEMİRDELEN T., Inci M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
 IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Aachen, Almanya, 22 - 25 Haziran 2015, ss.391-398
- LVIII. **A New Control Approach for Shunt Hybrid Active Power Filter to Compensate Harmonics and Dynamic Reactive Power with Grid Interconnection**  
 DEMİRDELEN T., Inci M., TÜMAY M.  
 UKSim-AMSS 9th IEEE European Modelling Symposium on Computer Modelling and Simulation (EMS), Madrid, İspanya, 6 - 08 Ekim 2015, ss.247-253
- LIX. **A Novel Low Cost Sag/Swell Generator**  
 Inci M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
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- LX. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**  
 KÖROĞLU T., CUMA M. U., TAN A., Inci M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
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- LXI. **The Analysis and Performance Results of Bidirectional DC-DC Converter Based Dynamic Voltage Restorer under Voltage Sag/Swell Conditions**  
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 UKSim-AMSS 9th IEEE European Modelling Symposium on Computer Modelling and Simulation (EMS), Madrid, İspanya, 6 - 08 Ekim 2015, ss.254-259
- LXII. **PARALLEL HYBRID ACTIVE POWER FILTER STATIC REACTIVE POWER COMPENSATION WITH HARMONIC COMPENSATION**  
 DEMİRDELEN T.  
 9th International Conference on Technical and Physical Problems of Electrical Engineering (ICTPE-2013), İstanbul, Türkiye, 9 - 11 Eylül 2013, ss.153-158
- LXIII. **Analysis of Power Quality Problems of Coreless Induction Melting Furnace with Exact Simulation Model Based on Field Measurements**  
 TAN A., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
 4th International Conference on Power Engineering, Energy and Electrical Drives, Adana, Türkiye, 13 - 17 Mayıs 2013, ss.283-289
- LXIV. **Şebekeye Bağlı Sistemler için Üç Faz ve Tek Faz PLL'lerin Performans Değerlendirmesi**  
 DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BüYÜK M., Terciyanlı A., Bayındır K. Ç., TÜMAY M.  
 5. Enerji Verimliliği Ve Kalitesi Sempozyumu 2013, Kocaeli, Türkiye, 23 - 24 Mayıs 2013, ss.5-9
- LXV. **Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL?lerin Performans Değerlendirmesi**  
 DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BüYÜK M., TERÇİYANLI A., BAYINDIR K. Ç., TÜMAY M.  
 5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Türkiye, 23 - 24 Mayıs 2013, ss.5-9
- LXVI. **Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL?lerin Performans Değerlendirmesi**  
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 5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Türkiye, 23 - 24 Mayıs 2013, ss.5-9
- LXVII. **Analysis of Power Quality Problems of Coreless Induction Melting Furnace with Exact Simulation Model Based on Field Measurements**  
 TAN A., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
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## **LXVIII. Review of Hybrid Active Power Filter Topologies and Controllers**

**DEMİRDELEN T.**

4th International Conference on Power Engineering, Energy and Electrical Drives, İstanbul, Türkiye, 13 - 17 Mayıs 2013, ss.587-592

## **LXIX. Analysis of Power Quality Problems of Coreless Induction Melting Furnace with Exact Simulation Model Based on Field Measurements**

**TAN A., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.**

IEEE 4th International Conference on Power Engineering, Energy and Electrical Drives - POWERENG 2013, İstanbul, Türkiye, 13 - 17 Mayıs 2013, ss.283-289

## **Desteklenen Projeler**

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TÜMAY M., BAL S., DEMİRDELEN T., Yükseköğretim Kurumları Destekli Proje, Manyetik Kontrollü Şönt Reaktör için Uygulanan Kontrol Yöntemlerinin İncelenmesi, 2016 - 2017

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## **Bilimsel Hakemlikler**

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## **Metrikler**

Yayın: 90

Atıf (WoS): 104

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H-İndeks (WoS): 4

H-İndeks (Scopus): 5

## **Akademi Dışı Deneyim**

Çukurova Silo

Abdioğulları ARGE Mühendislik Tasarım AŞ

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