

## Prof. Dr. ŞABAN ÖZDEMİR

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: I-3273-2016

ScopusID: 35248930200

Yoksis Araştırmacı ID: 141416

### Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi, Türkiye 2008 - 2013

Yüksek Lisans, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi, Türkiye 2004 - 2008

Lisans, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi, Türkiye 1999 - 2004

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Yenilenebilir enerji kaynakları için tek aşamalı MPPT denetimli çok seviyeli eviricinin gerçekleştirilmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), 2013

Yüksek Lisans, Fotovoltaik sistemler için mikrodenetleyicili en yüksek güç noktasını izleyen bir konvertörün gerçekleştirilmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), 2007

### Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2023 - Devam Ediyor

Doç. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - 2023

Doç. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2017 - 2021

Doç. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2017 - 2019

Öğretim Görevlisi Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2016 - 2017

Öğretim Görevlisi Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2014 - 2017

Öğretim Görevlisi Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2013 - 2014

Öğretim Görevlisi, Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2009 - 2013

Öğretim Görevlisi, Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2008 - 2009

## Akademik İdari Deneyim

Bölüm Başkanı, Gazi Üniversitesi, Teknik Bilimler Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2020 - 2021

Gazi Üniversitesi, Teknik Bilimler Meslek Yüksekokulu, Elektronik ve Otomasyon Bölümü, 2014 - 2016

Gazi Üniversitesi, Atatürk Meslek Yüksekokulu, Elektronik Ve Otomasyon Bölümü, 2014 - 2014

Gazi Üniversitesi, Atatürk Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2010 - 2011

## Verdiği Dersler

Güç Elektroniği, Lisans, 2021 - 2022

Temel Bilgisayar Programlama ve Matlab, Lisans, 2016 - 2017

Güç Elektroniği, Lisans, 2016 - 2017

Elektromekanik Enerji Dönüşümü, Lisans, 2016 - 2017

Mikrodenetleyiciler II, Lisans, 2016 - 2017

Elektrik Elektronik Mühendisliğine Giriş, Lisans, 2016 - 2017

Mesleki Yazılım Uygulamaları, Lisans, 2016 - 2017

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

- I. **Reliability Analysis of Microgrids: Evaluation of Centralized and Decentralized Control Approaches**  
Garip S., Bilgen M., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
Electric Power Components and Systems, cilt.51, sa.19, ss.2319-2338, 2023 (SCI-Expanded)
- II. **Optimization of PV and Battery Energy Storage Size in Grid-Connected Microgrid**  
Garip S., ÖZDEMİR Ş.  
Applied Sciences (Switzerland), cilt.12, sa.16, 2022 (SCI-Expanded)
- III. **A Novel Topology for Solar PV Inverter Based on an LLC Resonant Converter With Optimal Frequency and Phase-Shift Control**  
ALTIN N., ÖZDEMİR Ş., Khayamy M., Nasiri A.  
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.58, sa.4, ss.5042-5054, 2022 (SCI-Expanded)
- IV. **Super twisting sliding mode control of three-phase grid-tied neutral point clamped inverters**  
ÖZDEMİR Ş., ALTIN N., SEFA İ., Zhang Z., Komurcugil H.  
ISA Transactions, cilt.125, ss.547-559, 2022 (SCI-Expanded)
- V. **Design and Implementation of a LLC Resonant Solid-State Transformer**  
Rashidi M., ALTIN N., Ozdemir Ş., Bani-Ahmed A., Sabbah M., Balali F., Nasiri A.  
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.56, sa.4, ss.3855-3864, 2020 (SCI-Expanded)
- VI. **Design and Development of a High-Frequency Multiport Solid-State Transformer With Decoupled Control Scheme**  
Rashidi M., ALTIN N., ÖZDEMİR Ş., Bani-Ahmed A., Nasiri A.  
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.55, sa.6, ss.7515-7526, 2019 (SCI-Expanded)
- VII. **Sliding-Mode Control in Natural Frame With Reduced Number of Sensors for Three-Phase Grid-Tied LCL-Interfaced Inverters**  
ALTIN N., ÖZDEMİR Ş., Komurcugil H., SEFA İ.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.66, sa.4, ss.2903-2913, 2019 (SCI-Expanded)
- VIII. **An Enhanced Lyapunov-Function Based Control Scheme for Three-Phase Grid-Tied VSI With LCL Filter**  
SEFA İ., ÖZDEMİR Ş., Komurcugil H., ALTIN N.

IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, cilt.10, sa.2, ss.504-513, 2019 (SCI-Expanded)

- IX. **Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems**  
Manuel Lopez-Guede J., Ramos-Hernanz J., ALTIN N., ÖZDEMİR Ş., KURT E., Azkune G.  
JOURNAL OF ELECTRONIC MATERIALS, cilt.47, sa.8, ss.4519-4532, 2018 (SCI-Expanded)
- X. **Comparative study on Lyapunov-function-based control schemes for single-phase grid-connected voltage-source inverter with LCL filter**  
SEFA İ., ÖZDEMİR Ş., Komurcugil H., ALTIN N.  
IET RENEWABLE POWER GENERATION, cilt.11, sa.11, ss.1473-1482, 2017 (SCI-Expanded)
- XI. **Fuzzy logic based MPPT controller for high conversion ratio quadratic boost converter**  
ÖZDEMİR Ş., ALTIN N., Sefa İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17748-17759, 2017 (SCI-Expanded)
- XII. **Design and performance analysis of the three-level isolated DC-DC converter with the nanocrystalline core transformer**  
ÖZDEMİR Ş., Balci S., ALTIN N., SEFA İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17801-17812, 2017 (SCI-Expanded)
- XIII. **Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
ENERGY HARVESTING AND ENERGY EFFICIENCY: TECHNOLOGY, METHODS, AND APPLICATIONS, cilt.37, ss.261-292, 2017 (SCI-Expanded)
- XIV. **Z-source T-type inverter for renewable energy systems with proportional resonant controller**  
ÖZDEMİR Ş.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.29, ss.12591-12602, 2016 (SCI-Expanded)
- XV. **Lyapunov-Function and Proportional-Resonant-Based Control Strategy for Single-Phase Grid-Connected VSI With LCL Filter**  
Komurcugil H., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.63, sa.5, ss.2838-2849, 2016 (SCI-Expanded)
- XVI. **Sliding-Mode Control for Single-Phase Grid-Connected LCL-Filtered VSI With Double-Band Hysteresis Scheme**  
Komurcugil H., ÖZDEMİR Ş., SEFA İ., ALTIN N., Kukrer O.  
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.63, sa.2, ss.864-873, 2016 (SCI-Expanded)
- XVII. **An Extended Lyapunov-Function-Based Control Strategy for Single-Phase UPS Inverters**  
Komurcugil H., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
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- XVIII. **Fuzzy PI controlled inverter for grid interactive renewable energy systems**  
Sefa İ., Altin N., ÖZDEMİR Ş., KAPLAN O.  
IET Renewable Power Generation, cilt.9, sa.7, ss.729-738, 2015 (SCI-Expanded)
- XIX. **Single stage three level grid interactive MPPT inverter for PV systems**  
ÖZDEMİR Ş., ALTIN N., SEFA İ.  
ENERGY CONVERSION AND MANAGEMENT, cilt.80, ss.561-572, 2014 (SCI-Expanded)
- XX. **PV supplied single stage mppt inverter for induction motor actuated ventilation systems**  
ÖZDEMİR Ş., Altin N., Sefa İ., Bal G.  
Elektronika ir Elektrotehnika, cilt.20, sa.5, ss.116-122, 2014 (SCI-Expanded)
- XXI. **Three-phase three-level grid interactive inverter with fuzzy logic based maximum power point tracking controller**  
ALTIN N., ÖZDEMİR Ş.  
ENERGY CONVERSION AND MANAGEMENT, cilt.69, ss.17-26, 2013 (SCI-Expanded)

- I. **IEEE 14 Bara Sistemine Bağlanabilecek Maksimum Yük Seviyelerinin Belirlenmesi**  
Fesli U., Özdemir M. B., Özdemir Ş.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, cilt.11, sa.1, ss.111-132, 2023 (Hakemli Dergi)
- II. **Power System Reliability Assessment— A Review on Analysis and Evaluation Methods**  
Garip S., Bilgen M., Özdemir Ş., Altın N., Sefa İ.  
Journal of Energy Systems, cilt.6, sa.3, ss.401-419, 2022 (Scopus)
- III. **Development of a Medium Voltage, High Power, High Frequency Four-Port Solid State Transformer**  
El Shafei A., Özdemir Ş., Altın N., Jean-Pierre G., Nasiri A.  
CES Transactions on Electrical Machines and Systems, cilt.6, sa.1, ss.95-104, 2022 (Scopus)
- IV. **Review of Standards on Insulation Coordination for Medium Voltage Power Converters**  
ÖZDEMİR Ş., ALTIN N., Nasiri A., Cuzner R.  
IEEE Open Journal of Power Electronics, cilt.2, ss.236-249, 2021 (ESCI)
- V. **32 Bit ARM İşlemci ile Hız Denetimi Yapılan Bir DA Motorun Android Arayüzü Olan Bir Cihaz Üzerinden Uzaktan Kontrolü ve İzlenmesi**  
ALTIN N., SEFA İ., ÖZDEMİR Ş., zeki z.  
Bilişim Teknolojileri Dergisi, cilt.8, sa.3, 2015 (Hakemli Dergi)
- VI. **dSAPCE Based Fuzzy Logic Controlled Boost Converter**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
Electronics and Computer Science, Scientific Bulletin, cilt.2, sa.8, ss.36-41, 2009 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- I. **Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
Energy Harvesting and Energy Efficiency, Erol Kurt, Editör, Springer International Publishing AG, ss.261-292, 2017
- II. **Alternatif Akım Devre Analizi**  
BAL G., ÖZDEMİR Ş.  
Semih Ofset, Ankara, 2013

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Development of a High Frequency/Power Three-Port SST Suitable for Solar PV/Battery Interface**  
ÖZDEMİR Ş., ALTIN N., El Shafei A., Nasiri A.  
38th Annual IEEE Applied Power Electronics Conference and Exposition, APEC 2023, Florida, Amerika Birleşik Devletleri, 19 - 23 Mart 2023, cilt.2023-March, ss.2313-2320
- II. **Reliability Analysis of Centralized and Decentralized Controls of Microgrid**  
Garip S., Bilgen M., Özdemir Ş., Altın N., Sefa İ.  
11th International Conference on Renewable Energy Research and Applications, İstanbul, Türkiye, 19 - 21 Eylül 2022, ss.8-15
- III. **Parameter Selection of an LLC Resonant Converter for PV Application**  
Özdemir Ş., Altın N., El Shafei A., Nasiri A.  
11th International Conference on Renewable Energy Research and Applications, İstanbul, Türkiye, 18 - 21 Eylül 2022, ss.1-7
- IV. **Comparison of Real-Time Voltage Stability Assessment Methods**  
Bilgen M., ÖZDEMİR Ş.  
13th International Conference on Electrical and Electronics Engineering, 25 Kasım 2021
- V. **Second-Order Sliding Mode Control of Three-Phase Three-Level Grid-Connected Neutral Point Clamped Inverters**  
ALTIN N., ÖZDEMİR Ş., SEFA İ., KÖMÜRCÜGİL H.

International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romanya, 01 Temmuz 2021

- VI. **Design and Implementation of a Medium Voltage, High Power, High Frequency Four-Port Transformer**  
El Shafei A., Özdemir Ş., Altın N., Jean Pierre G., Nasiri A.  
2020 IEEE Applied Power Electronics Conference and Exposition (APEC), California, Amerika Birleşik Devletleri, 15 - 19 Mart 2020, ss.2352-2357
- VII. **A High Power High Frequency Transformer Design for Solid State Transformer Applications**  
El Shafei A., ÖZDEMİR Ş., ALTIN N., Jean Pierre G., Nasiri A.  
8TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS (ICRERA), Brasov, Romanya, 3 - 06 Kasım 2019, ss.1-6
- VIII. **A Complete Design of a High Frequency Medium Voltage Multi-Port Transformer**  
El Shafei A., ÖZDEMİR Ş., ALTIN N., Jean Pierre G., Nasiri A.  
8TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS (ICRERA), Brasov, Romanya, 3 - 06 Kasım 2019, ss.7-12
- IX. **A Modified Lyapunov-Function Based Control Scheme for Three-Phase Three-Level Two-Leg Grid-Tied NPC Inverter**  
ALTIN N., SEFA İ., Komurcugil H., ÖZDEMİR Ş.  
7th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Türkiye, 25 - 26 Nisan 2019, ss.218-222
- X. **A Decoupled Control Scheme of Four-Port Solid State Transformer**  
Ozdemir Ş., ALTIN N., El Shafei A., Rashidi M., Nasiri A.  
11th Annual IEEE Energy Conversion Congress and Exposition (ECCE), Maryland, Amerika Birleşik Devletleri, 29 Eylül - 03 Ekim 2019, ss.5009-5015
- XI. **A Novel Solar PV Inverter Topology Based on an LLC Resonant Converter**  
Altın N., Ozdemir Ş., Nasiri A.  
11th Annual IEEE Energy Conversion Congress and Exposition (ECCE), Maryland, Amerika Birleşik Devletleri, 29 Eylül - 03 Ekim 2019, ss.6734-6740
- XII. **A Modified Lyapunov-Function Based Control Scheme for Two-Leg Three-Level T-Type Grid-Tied Inverter with LCL Filter**  
ALTIN N., ÖZDEMİR Ş., SEFA İ., Komurcugil H.  
4th International Conference on Power Electronics and their Applications (ICPEA), Elazığ, Türkiye, 25 - 27 Eylül 2019
- XIII. **Sliding-mode and proportional-resonant based control strategy for three-phase two-leg T-type grid-connected inverters with LCL filter**  
ALTIN N., ÖZDEMİR Ş., Komurcugil H., Sefaand İ., Biricik S.  
44th Annual Conference of the IEEE Industrial Electronics Society, IECON 2018, Washington, Amerika Birleşik Devletleri, 20 - 23 Ekim 2018, ss.4492-4497
- XIV. **Mesh Quality Effects of the FEA Simulation Applied on a Transformer**  
BALCI S., SEFA İ., ALTIN N., ÖZDEMİR Ş.  
7th International Conference on Advanced Technologies (ICAT'xx18), Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XV. **Bidirectional Three-Phase Two-Leg Inverter with PR Current Controller**  
ÖZDEMİR Ş., SEFA İ., BALCI S., ALTIN N.  
7th International Conference on Advanced Technologies (ICAT'xx18), Antalya, Türkiye, 28 Nisan - 01 Mayıs 2018
- XVI. **An Analysis on Cooling Requirements of the High Power Medium Frequency Inductors**  
Balci S., SEFA İ., ALTIN N., ÖZDEMİR Ş.  
12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 Nisan 2018
- XVII. **Sliding Mode Control of Three-Phase Three-Level Two-Leg NPC Inverter with LCL Filter for Distributed Generation Systems**  
ÖZDEMİR Ş., ALTIN N., Komurcugil H., SEFA İ.

- 44th Annual Conference of the IEEE Industrial-Electronics-Society (IECON), Washington, Kiribati, 20 - 23 Ekim 2018, ss.3895-3900
- XVIII. **Three-Phase Three-Level T-type Grid-Connected Inverter with Reduced Number of Switches**  
ALTIN N., SEFA İ., Komurcugil H., ÖZDEMİR Ş.  
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Türkiye, 25 - 26 Nisan 2018, ss.58-62
- XIX. **Two-Stage Grid-Connected Inverter for PV Systems**  
ALTIN N., ÖZDEMİR Ş., Komurcugil H., SEFA İ., Biricik S.  
12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 Nisan 2018
- XX. **Loss Behaviour of the Dry-type Power Transformer According to the Load Type**  
BALCI S., BATTAL F., SEFA İ., Bayram M. B., ÖZDEMİR Ş., ALTIN N.  
European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.49
- XXI. **Series-Parallel Resonant Converter With Current Limiting Ability For Renewable Energy Source**  
ALTIN N., ÖZDEMİR Ş., BALCI S., SEFA İ.  
European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.483-488
- XXII. **An Investigation On Coupled Inductors of Quadratic Boost Converters**  
BALCI S., SEFA İ., ÖZDEMİR Ş., ALTIN N.  
European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.507-513
- XXIII. **Preliminary Modeling of FLC Dealing with MPPT Problem**  
Lopez Guede J. M., Ramos Hernanz J., ALTIN N., ÖZDEMİR Ş., KURT E., Azkune G.  
European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.239-244
- XXIV. **Three-Phase Three-Level Inverter with Reduced Number of Switches for Stand-Alone PV Systems**  
SEFA İ., Komurcugil H., DEMİRBAŞ Ş., ALTIN N., ÖZDEMİR Ş.  
6th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), California, Amerika Birleşik Devletleri, 5 - 08 Kasım 2017, ss.1115-1120
- XXV. **Design and Loss Analysis of LCL Filter Inductors for Two-Level and Three-Level Inverters**  
SEFA İ., ALTIN N., ÖZDEMİR Ş., Balci S., Bayram M. B., Kelebek H.  
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- XXVI. **MPPT Capable Quadratic Boost Converter for PV Systems**  
ÖZDEMİR Ş., ALTIN N., SEFA İ.  
ECRES – 4. European Conference on Renewable Energy Systems, İstanbul, Türkiye, 28 - 31 Ağustos 2016, ss.826-831
- XXVII. **Three Level Isolated DC DC Converter For High Power Applications**  
ÖZDEMİR Ş., Balci S., ALTIN N., SEFA İ.  
ECRES – 4. European Conference on Renewable Energy Systems, İstanbul, Türkiye, 28 - 31 Ağustos 2016, ss.872-877
- XXVIII. **Sliding-Mode and Proportional-Resonant Based Control Strategy for Three-Phase Grid-Connected LCL-Filtered VSI**  
Komurcugil H., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
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- XXIX. **A Modified Lyapunov-Function Based Control Strategy for Three-Phase Grid-Connected VSI with LCL Filter**  
Komurcugil H., ÖZDEMİR Ş., ALTIN N., SEFA İ.  
42nd Annual Conference of the IEEE-Industrial-Electronics-Society (IECON), Florence, İtalya, 24 - 27 Ekim 2016, ss.2218-2223
- XXX. **Z Source T Type Inverter for Renewable Energy Systems**

ÖZDEMİR Ş.

ECRES-3. European Conference on Renewable Energy Systems, Antalya, Türkiye, 7 - 10 Ekim 2015, ss.1-6

- XXXI. **Three-Phase Multilevel Grid Interactive Inverter for PV Systems with Reactive Power Support Capability**  
ÖZDEMİR Ş., Bayhan S., SEFA İ., ALTIN N.  
First Workshop on Smart Grid and Renewable Energy (SGRE), Doha, Qatar, 22 - 23 Mart 2015
- XXXII. **Three-Phase Three-Level Inverter Based Shunt Active Power Filter**  
ALTIN N., KAPLAN O., ÖZDEMİR Ş.  
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Türkiye, 21 - 24 Eylül 2014, ss.799-804
- XXXIII. **Z Source Inverter for Renewable Energy Systems**  
SEFA İ., ALTIN N., ÖZDEMİR Ş.  
II. The European Workshop & Conference on Renewable Energy Systems, EWRES & ECRES, Antalya, Türkiye, 20 - 30 Kasım 2013, ss.1-6
- XXXIV. **FEM based parametric analysis of AC line reactors**  
BALCI S., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
4th International Conference on Power Engineering, Energy and Electrical Drives, Istanbul, Turkey, 13 - 17 Mayıs 2013, ss.1328-1333
- XXXV. **FEM based parametric analysis of AC line reactors Power Engineering**  
balcı s., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
IEEE 4. International Conference on Energy and Electrical Drives (POWERENG'2013), İstanbul, Türkiye, 13 - 17 Mayıs 2013, ss.1328-1333
- XXXVI. **A Comparison of Single and Three Phase DC/DC Converter Structures for Battery Charging**  
ALTIN N., Balci S., ÖZDEMİR Ş., SEFA İ.  
International Conference on Renewable Energy Research and Applications (ICRERA), Madrid, İspanya, 20 - 23 Ekim 2013, ss.1228-1233
- XXXVII. **A Comprehensive Analysis of Inductors for Interleaved Buck Converter**  
SEFA İ., balcı s., ALTIN N., ÖZDEMİR Ş.  
IEEE 15th International Power Electronics and Motion Control Conference and Exposition, Novi-Sad, Sırbistan, 4 - 06 Kasım 2012, ss.1-6
- XXXVIII. **Three Phase Three Level Grid Interactive Inverter with Fuzzy Logic Based MPPT Controller**  
ALTIN N., ÖZDEMİR Ş.  
The European Workshop & Conference on Renewable Energy Systems, EWRES & ECRES, Antalya, Türkiye, 1 - 03 Ekim 2012, ss.1-8
- XXXIX. **Single Stage Three Level MPPT Inverter for Solar Supplied Systems**  
ÖZDEMİR Ş., ALTIN N., SEFA İ.  
IEEE 21th International Symposium on Power Electronics, Electrical Drives, Automation and Motion, Sorrento, İtalya, 20 - 22 Haziran 2012, ss.103-108
- XL. **Dynamic Reactive Power Compensation System for Wind Turbines**  
SEFA İ., özsan a., ALTIN N., GÖRGÜNOĞLU S., ÖZDEMİR Ş.  
7. International Conference and Exhibition on Ecological Vehicles and Renewable Energies, EVER'12, manako, FRANSA GÜNEY BÖLGESİ, 22 - 24 Mayıs 2012, ss.1-6
- XLI. **Comprehensive Analysis of Inductors for an Interleaved Buck Converter**  
Sefa I., Balci S., ALTIN N., ÖZDEMİR Ş.  
15th International Power Electronics and Motion Control Conference and Exposition (EPE-PEMC ECCE Europe), Novi-Sad, Sırbistan, 4 - 06 Eylül 2012
- XLII. **A Three-Level MPPT Capability Rectifier For High Power Direct Drive WECS**  
ALTIN N., ÖZDEMİR Ş.  
1st International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japonya, 11 - 14 Kasım 2012
- XLIII. **Core losses of pwm excited inverter transformers with finite element method**

SEFA İ., balcı s., ALTIN N., ÖZDEMİR Ş.

7th International Conference on Technical and Physical Problems of Power Engineering TPE-2011, Lefkoşa, Kıbrıs (Kkct), 7 - 09 Temmuz 2011, ss.1-6

**XLIV. An Implementation of Grid Interactive Inverter with Reactive Power Support Capability for Renewable Energy Sources**

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## **Burslar**

A RESEARCH ON GRID INTERACTIVE INVERTERS FOR RENEWABLE ENERGY SOURCES AT UNIVERSITY OF WISCONSIN-MILWAUKEE, TÜBİTAK, 2017 - 2019

## **Akademi Dışı Deneyim**

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