

# Prof. İBRAHİM SEFA

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (Dr), Turkey 1993 - 1997

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (YI) (Tezli), Turkey 1992 - 1993

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektrik Pr., Turkey 1981 - 1985

## Dissertations

Doctorate, Sliding mode yaklaşımı ile anahtarlamalı relüktans motorun hız kontrolü, Erciyes University, Kamu Yönetimi, Elektronik Mühendisliği (Dr), 1997

Postgraduate, Bilgisayar denetimli güç kaynağı, Erciyes University, Kamu Yönetimi, Elektronik Mühendisliği (YI) (Tezli), 1993

## Research Areas

Renewable energy, Electric Motor Drivers, Power Converters, Power Quality

## Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2017 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2011 - 2017

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Elektrik Elektronik Eğitimi, 2000 - 2011

## Advising Theses

SEFA İ., Displaying Uninterruptible Power Supply Parameters Transferred By Wireless Connection, Postgraduate, S.BEYZA(Student), 2020

SEFA İ., FPGA Tabanlı Çok Kanallı MPPT Denetleyici Tasarımı, Postgraduate, F.KARATEPE(Student), 2019

SEFA İ., Fpga Based Digital Filter Design, Postgraduate, C.Aydın(Student), 2019

SEFA İ., FPGA based digital filter design, Postgraduate, C.AYDIN(Student), 2019

SEFA İ., Design And Implementation Of Gray Wolf Optimization Method Based Maximum Power Point Tracking Algorithm For Photovoltaic Systems, Postgraduate, K.ATICI(Student), 2019

SEFA İ., Sabit mıknatıslı senkron motorlar için hız yörüngesi denetleyicisi tasarımı, Postgraduate, Ç.HİSAR(Student), 2019

SEFA İ., Investigation Of Vibration Effects Caused By Harmonics Medium Frequency Nanocrystalline Core Power Transformers, Doctorate, F.BATTAL(Student), 2019

SEFA İ., Design Of Trajectory Of Velocity Controller For Permanent Magnet Synchrnous Motors, Postgraduate, Ç.Hisar(Student), 2019

SEFA İ., TAHRIK SİSTEMLERİ İÇİN SABİT MIKNATISLI SENKRON MOTOR SÜRÜCÜSÜ TASARIMI VE UYGULAMASI, Postgraduate, Ç.HİSAR(Student), 2018

SEFA İ., Güç sistemi harmoniklerinin gerçek zamanlı olarak belirlenmesi, Doctorate, M.GÖK(Student), 2017

SEFA İ., Implementation Of A High Dynamic Response Static Excitation System For Synchronous Generators, Doctorate, M.BAHA(Student), 2017

SEFA İ., The Analysis, Design And Implementation Of The Medium Frequency Power Transformer With Nanocrystalline Core Material, Doctorate, S.BALCI(Student), 2016

SEFA İ., Elektrikli araçlar için iki fazlı izolesiz faz kaydırmalı çift yönlü da-da dönüştürücü tasarımıve uygulaması, Postgraduate, F.BURAK(Student), 2014

SEFA İ., Implementation of single stage line interactive multilevel inverter for renewable energy sources with mppt capability, Doctorate, Ş.ÖZDEMİR(Student), 2013

SEFA İ., Design and implementation non-isolated interleaved two phase Bi-directional DC-DC converter for electrical vehicles, Postgraduate, F.Burak(Student), 2013

SEFA İ., Design of dynamic reactive power controller, Postgraduate, A.ÖZSAN(Student), 2013

SEFA İ., dsPIC based interleaved converter, Postgraduate, F.BATTAL(Student), 2011

SEFA İ., MODELING AND ANALYSIS OF INVERTER OUTPUT TRANSFORMERS, Postgraduate, S.BALCI(Student), 2010

SEFA İ., Evirici çıkış transformatörlerinin modellenmesi ve analizi, Postgraduate, S.BALCI(Student), 2010

SEFA İ., RESONANT INVERTER APPLICATION WITH PLL CONTROL TECHNIC, Postgraduate, E.ASA(Student), 2009

SEFA İ., Bulanık sinirsel denetimli şebeke etkileşimli evirici tasarımı ve gerçekleştirilmesi, Doctorate, A.NECMİ(Student), 2009

SEFA İ., DESIGN AND IMPLEMENTATION OF A CURRENT SENSORLESS DSP BASED PFC CIRCUIT (Ph. D. Thesis) Nazlıgül SERTLER GAZİ UNIVERSITY INSTITUTE OF SCIENCE AND TECHNOLOGY, Doctorate, N.SERTLER(Student), 2008

SEFA İ., Güneş ve rüzgâr enerjisi kullanılarak şebeke ile paralel çalışabilen hibrit enerji santrali tasarımı ve uygulaması, Doctorate, M.DEMİRTAŞ(Student), 2008

SEFA İ., DESIGN AND IMPELEMANATION OF MICROCONTROLLER BASED MAXSIMUM POWER POINT TRACKER CONVERTER FOR PHOTOVOLTAIC SYSTEMS, Postgraduate, Ş.ÖZDEMİR(Student), 2007

SEFA İ., Mikrodenetleyici kontrollü servo gerilim regülatörünün tasarımı ve uygulaması, Postgraduate, N.BOZKURT(Student), 2006

SEFA İ., Silahlı Kuvvetlerdeki hafif ateşli silah kazalarının nedenleri ve önleme yollarının araştırılması, Postgraduate, H.ATAÇ(Student), 2006

SEFA İ., Asenkron motor ve asenkron generatör parametrelerinin dolaylı metotla çıkarılması, Postgraduate, V.BOZKURT(Student), 2006

SEFA İ., Hava aracı bakımında insan faktörleri, Postgraduate, S.KORAL(Student), 2006

SEFA İ., Otomatik klima tasarımı, Postgraduate, H.TOLGA(Student), 2004

SEFA İ., Üç fazlı şebekelerde mikrodenetleyici kontrollü, ölçüm cihazı yapımı, Postgraduate, Ş.TARAKÇI(Student), 2004

SEFA İ., 18 darbeli doğrultucu tasarımı, Postgraduate, N.ALTIN(Student), 2003

SEFA İ., Mikrodenetleyici kontrollü hat etkileşimli kesintisiz güç kaynağı tasarımı, Postgraduate, N.TORUN(Student), 2001

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.51, no.19, pp.2319-2338, 2023 (SCI-Expanded)
- II. **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, vol.125, pp.547-559, 2022 (SCI-Expanded)

- III. **Power electronic transformers: A review**  
Battal F., Balci S., SEFA İ.  
MEASUREMENT, vol.171, 2021 (SCI-Expanded)
- IV. **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, vol.66, no.4, pp.2903-2913, 2019 (SCI-Expanded)
- V. **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, vol.10, no.2, pp.504-513, 2019 (SCI-Expanded)
- VI. **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, vol.11, no.11, pp.1473-1482, 2017 (SCI-Expanded)
- VII. **Fuzzy logic based MPPT controller for high conversion ratio quadratic boost converter**  
ÖZDEMİR Ş., ALTIN N., Sefa İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17748-17759, 2017 (SCI-Expanded)
- VIII. **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, vol.42, no.28, pp.17801-17812, 2017 (SCI-Expanded)
- IX. **Design and analysis of a 35 kVA medium frequency power transformer with the nanocrystalline core material**  
Balci S., SEFA İ., ALTIN N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17895-17909, 2017 (SCI-Expanded)
- X. **A static exciter with interleaved buck converter for synchronous generators**  
Bayram M. B., SEFA İ., Balci S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17760-17770, 2017 (SCI-Expanded)
- XI. **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, vol.37, pp.261-292, 2017 (SCI-Expanded)
- XII. **Research and Implementation of a USB Interfaced Real-Time Power Quality Disturbance Classification System**  
Gok M., SEFA İ.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.17, no.3, pp.61-70, 2017 (SCI-Expanded)
- XIII. **Thermal Behavior of a Medium-Frequency Ferrite-Core Power Transformer**  
Balci S., SEFA İ., ALTIN N.  
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3978-3988, 2016 (SCI-Expanded)
- XIV. **An Investigation of Ferrite and Nanocrystalline Core Materials for Medium-Frequency Power Transformers**  
Balci S., SEFA İ., ALTIN N.  
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3811-3821, 2016 (SCI-Expanded)
- XV. **Preface to the special issue on "3rd European Conference on Renewable Energy Systems (ECRES' 2015), 7-10 October 2015, Kerner, Antalya, Turkey"**  
KURT E., SEFA İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.29, pp.12441-12442, 2016 (SCI-Expanded)
- XVI. **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, vol.63, no.5, pp.2838-2849, 2016 (SCI-Expanded)
- XVII. **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, vol.63, no.2, pp.864-873, 2016 (SCI-Expanded)
- XVIII. **An Extended Lyapunov-Function-Based Control Strategy for Single-Phase UPS Inverters**  
Komurcugil H., ALTIN N., ÖZDEMİR Ş., SEFA İ.  
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.30, no.7, pp.3976-3983, 2015 (SCI-Expanded)
- XIX. **Fuzzy PI controlled inverter for grid interactive renewable energy systems**  
Sefa İ., Altin N., ÖZDEMİR Ş., KAPLAN O.  
IET Renewable Power Generation, vol.9, no.7, pp.729-738, 2015 (SCI-Expanded)
- XX. **Single stage three level grid interactive MPPT inverter for PV systems**  
ÖZDEMİR Ş., ALTIN N., SEFA İ.  
ENERGY CONVERSION AND MANAGEMENT, vol.80, pp.561-572, 2014 (SCI-Expanded)
- XXI. **Linear model of a novel 5-phase segment type switched reluctance motor**  
Uygun D., Bal G., Sefa İ.  
Elektronika ir Elektrotehnika, vol.20, no.1, pp.3-7, 2014 (SCI-Expanded)
- XXII. **PV supplied single stage mppt inverter for induction motor actuated ventilation systems**  
ÖZDEMİR Ş., Altin N., Sefa İ., Bal G.  
Elektronika ir Elektrotehnika, vol.20, no.5, pp.116-122, 2014 (SCI-Expanded)
- XXIII. **dSPACE based adaptive neuro-fuzzy controller of grid interactive inverter**  
ALTIN N., SEFA İ.  
ENERGY CONVERSION AND MANAGEMENT, vol.56, pp.130-139, 2012 (SCI-Expanded)
- XXIV. **PROVIDING EQUALITY OF FREQUENCIES AND PHASE ANGLES BASED ON MICROCONTROLLER FOR PARALLEL CONNECTION OF GENERATORS**  
SEFA İ., BAYINDIR R., Garip I., Bayhan S., Colak I.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.1, pp.39-48, 2010 (SCI-Expanded)
- XXV. **30 PULSE RECTIFIER DESIGN FOR GRID INTERFACES OF THE VARIABLE SPEED DRIVES**  
SEFA İ., ALTIN N.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.4, pp.675-685, 2009 (SCI-Expanded)
- XXVI. **Application of one-axis sun tracking system**  
SEFA İ., DEMİRTAŞ M., Colak I.  
ENERGY CONVERSION AND MANAGEMENT, vol.50, no.11, pp.2709-2718, 2009 (SCI-Expanded)
- XXVII. **A novel approach to determine the interphase transformer inductance of 18 pulse rectifiers**  
SEFA İ., ALTIN N.  
ENERGY CONVERSION AND MANAGEMENT, vol.50, no.10, pp.2495-2503, 2009 (SCI-Expanded)
- XXVIII. **GRID INTERACTIVE PHOTOVOLTAIC INVERTERS- A REVIEW**  
SEFA İ., ALTIN N.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.3, pp.409-424, 2009 (SCI-Expanded)
- XXIX. **MICROCONTROLLER BASED DC/DC BOOST CONVERTER FOR SOLAR ENERGY SYSTEMS**  
DEMİRTAŞ M., SEFA İ., IRMAK E., Colak I.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.3, pp.719-728, 2008 (SCI-Expanded)
- XXX. **DESIGN AND IMPLEMENTATION OF PARALLEL OPERATION SET OF ALTERNATORS FOR EDUCATIONAL PURPOSE**  
SEFA İ., DEMİRTAŞ M., Garip I., Colak I.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.3, pp.729-739,

- 2008 (SCI-Expanded)
- XXXI. **Fault detection and protection of induction motors using sensors**  
BAYINDIR R., SEFA İ., Colak I., Bektas A.  
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.23, no.3, pp.734-741, 2008 (SCI-Expanded)
- XXXII. **Remote controlling and monitoring of HVAC system over Internet**  
Colak I., DEMİRBAŞ Ş., SEFA İ., IRMAK E., Kahraman H. T.  
JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.67, no.9, pp.680-684, 2008 (SCI-Expanded)
- XXXIII. **A novel control system for air conditioners Klimalar için yeni bir kontrol sistemi**  
SEFA İ., Kahraman H. T.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.22, no.3, pp.339-347, 2007 (SCI-Expanded)
- XXXIV. **Novel approach based on microcontroller to online protection of induction motors**  
BAYINDIR R., Sefa İ.  
ENERGY CONVERSION AND MANAGEMENT, vol.48, no.3, pp.850-856, 2007 (SCI-Expanded)
- XXXV. **On line protection systems for induction motors**  
Colak I., Celik H., Sefa İ., DEMİRBAŞ Ş.  
ENERGY CONVERSION AND MANAGEMENT, vol.46, no.17, pp.2773-2786, 2005 (SCI-Expanded)
- XXXVI. **Experimental study on reactive power compensation using a fuzzy logic controlled synchronous motor**  
Colak I., BAYINDIR R., Sefa İ.  
ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.2371-2391, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design and Control of a Permanent Magnet Assisted Synchronous Reluctance Motor**  
Boudjelida L., Hisar Ç., Sefa İ.  
International Journal of Automotive Science and Technology, vol.7, no.4, pp.332-339, 2023 (Scopus)
- II. **Elektrik İletim Hatlarının Güvenirliği için Uygun Olasılık Dağılım Seçimi ve Analizi**  
KARA Y., CANAL M. R., SEFA İ., BORAN F. E.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.9, pp.108-121, 2021 (Peer-Reviewed Journal)
- III. **A Hybrid Overload Current Limiting and Short Circuit Protection Scheme for Voltage Mode Inverters**  
Koseoglu C., ALTIN N., Zengin F., Kelebek H., SEFA İ.  
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.10, no.1, pp.407-415, 2020 (ESCI)
- IV. **Doğrusal Olmayan Yük Koşullarında Çalışan Kuru Tip Transformatörlerin Titreşim Etkileri Üzerine Bir Analiz**  
BATTAL F., SEFA İ., BALCI S.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.7, no.3, pp.729-740, 2019 (Peer-Reviewed Journal)
- 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, vol.8, no.3, 2015 (Peer-Reviewed Journal)
- VI. **Design of the AC Line Reactors With Finite Element Method**  
SEFA İ., Balci S., ALTIN N.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.18, no.4, pp.257-267, 2015 (ESCI)
- VII. **Sonlu Elemanlar Metodu ile AA Hat Reaktörlerinin Tasarımı**  
SEFA İ., selami b., ALTIN N.  
Gazi Üniversitesi Politeknik Dergisi, vol.18, no.4, pp.257-267, 2015 (Peer-Reviewed Journal)
- VIII. **dSAPCE Based Fuzzy Logic Controlled Boost Converter**

SEFA İ., ALTIN N., ÖZDEMİR Ş.

Electronics and Computer Science, Scientific Bulletin, vol.2, no.8, pp.36-41, 2009 (Peer-Reviewed Journal)

**IX. Güneş Enerjisi Kaynaklı LED Armatür Tasarımı**

ÇOLAK İ., SEFA İ., BAYINDIR R., DEMİRTAŞ M.

JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGİSİ, vol.10, no.4, pp.347-352, 2007 (Peer-Reviewed Journal)

**X. Bilgisayar Kontrollü Güneş Takip Sisteminin Tasarımı ve Uygulaması**

ÇOLAK İ., SEFA İ., BAYINDIR R., DEMİRTAŞ M.

JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGİSİ, vol.9, no.4, pp.247-253, 2006 (Peer-Reviewed Journal)

**XI. Dynamic response of a simple rotor resistance compensation method for field-oriented induction motor**

BAL G., ELMAS Ç., Colak I., SEFA İ.

vol.1, pp.386-389, 1994 (Scopus)

## Books & Book Chapters

**I. Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems**

SEFA İ., ALTIN N., ÖZDEMİR Ş.

in: Energy Harvesting and Energy Efficiency, Erol Kurt, Editor, Springer International Publishing AG, pp.261-292, 2017

## Refereed Congress / Symposium Publications in Proceedings

**I. An Improved Fast Terminal Sliding Mode Control for Step-Down Converter**

HİSAR Ç., BALTA G., ALTIN N., SEFA İ.

2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Romania, 29 June 2023

**II. Fixed-Frequency Sliding Mode Control in Synchronous Reference Frame for Three-Phase LCL Filtered Active Front-End Converter**

HİSAR Ç., SEFA İ., ALTIN N.

20th International Power Electronics and Motion Control Conference (PEMC), Brasov, Romania, 25 - 28 October 2022, pp.295-300

**III. Sliding Mode Control in Natural Reference Frame for Three-Phase LCL Filtered Active Front-End Converter**

HİSAR Ç., SEFA İ., ALTIN N.

14th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2022, Ploiesti, Romania, 30 June - 01 July 2022

**IV. Second-Order Sliding Mode Control of Three-Phase Three-Level Grid-Connected Neutral Point Clamped Inverters**

ALTIN N., ÖZDEMİR Ş., SEFA İ., KÖMÜRCÜĞİL H.

International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 01 July 2021

**V. A Hybrid Overload Current Limiting and Short Circuit Protection Scheme: A Case Study on UPS Inverter**

Köseoğlu C., ALTIN N., Zengin F., Kelebek H., SEFA İ.

ICRERA 2019 8TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS, Brasov, Romania, 3 - 06 November 2019, pp.1-6

**VI. An Analysis of High Power Inductor Vibration Behavior in Terms of Air Gaps**

BATTAL F., BALCI S., SEFA İ.

2019 International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET),

Istanbul, Turkey, Turkey, 26 - 27 August 2019

**VII. LYAPUNOV-FUNCTION AND SLIDING MODE CONTROLLER BASED CONTROL OPTIONS FOR GRID-CONNECTED INVERTERS**

SEFA İ.

International Conference on Power Generation Systems and Renewable Energy Technologies, İstanbul, Turkey, 26 - 27 August 2019

**VIII. 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, Turkey, 25 - 27 September 2019

**IX. LYAPUNOV-FUNCTION-BASED CONTROL OPTIONS FOR GRID-CONNECTED INVERTERS**

SEFA İ.

11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 27 - 29 June 2019

**X. FPGA Implementation of Multichannel FIR Filters**

Aydin C., SEFA İ.

11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 27 - 29 June 2019

**XI. Grey Wolf Optimization Based MPPT Algorithm for Solar PV System with SEPIC Converter**

Atici K., SEFA İ., ALTIN N.

4th International Conference on Power Electronics and their Applications (ICPEA), Elazığ, Turkey, 25 - 27 September 2019

**XII. 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, Turkey, 25 - 26 April 2019, pp.218-222

**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, United States Of America, 20 - 23 October 2018, pp.4492-4497

**XIV. A Comparative Vibration Analysis of Induction Motor and Synchronous Reluctance Motor**

BATTAL F., BUDJELIDA L., SEFA İ.

3rd International ISIDE Conference on Industrial Design and Engineering, Antalya, Turkey, 22 - 24 November 2018

**XV. FEA yazılımı ile Asenkron Motor ve Senkron Relüktans Motorun Karşılaştırmalı Isıl Benzetimi**

BALCI S., BUDJELIDA L., SEFA İ.

3'rd International Symposium on Industrial Design Engineering, Antalya, Turkey, 22 - 24 November 2018

**XVI. 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, Turkey, 28 April - 01 May 2018

**XVII. 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, Turkey, 28 April - 01 May 2018

**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, Turkey, 25 - 26 April 2018, pp.58-62

**XIX. 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 April 2018

- XX. **Two-Stage Grid-Connected Inverter for PV Systems**  
ALTIN N., ÖZDEMİR Ş., Komurcugil H., SEFA İ., Birick S.  
12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 April 2018
- XXI. **Identification of Mechanical Parameters for the Switched Reluctance Motor**  
ÜSTÜN O., ÖNDER M., SEFA İ.  
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- XXII. **Sliding Mode Control of Three-Phase Three-Level Two-Leg NPC Inverter with LCL Filter for Distributed Generation Systems**  
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## Metrics

Publication: 153

Citation (WoS): 1162

Citation (Scopus): 1851

H-Index (WoS): 17

H-Index (Scopus): 22