

Assoc. Prof. MUSTAFA ERGİN ŞAHİN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAO-9505-2021

ScopusID: 36976368600

Yoksis Researcher ID: 48352

Education

Post Doctorate, Aalborg Universitet (Aalborg University), The Faculty Of Engineering And Science, Department Of Energy Technology (Director: Prof. Frede Blaabjerg), Denmark 2018 - 2019

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı , Turkey 2008 - 2014

Postgraduate, Gazi University, Termodinamik Ve Isı Tekniği, Elektrik Elektronik Mühendisliği Anabilim Dalı , Turkey 2003 - 2006

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 1997 - 2002

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Understand How to Write Good Papers for High Level Journals, Aalborg University (Lecturer Prof. Frede Blaabjerg and Prof. Kaiyuan Lu), 2019

Education Management and Planning, Stability and Control of Grid Forming Power Electronics Systems, Aalborg University (Lecturer Prof. Xiongfei Wang, Prof. Pedro Rodriguez) , 2019

Education Management and Planning, Power Quality and Synchronization Techniques in Microgrids, Aalborg University (Lecturer Prof. Josep M. Guerrero, Prof. Juan V. Vasquez), 2019

Education Management and Planning, Application Oriented Modelling of Renewable Energy Sources, Conversion and Energy Storage Systems, Aalborg University (Lecturer Dr. Sergua Spataru), 2019

Education Management and Planning, Introduction to Wind Power (Generation and Integration), Aalborg University (Lecturer Prof. Zhe Chen), 2019

Education Management and Planning, Reluctance Electric Motor Drives for High Efficiency in Line Start and Variable Speed Applications, Aalborg University (Lecturer Prof. Ion Boldea), 2018

Education Management and Planning, Capacitors in Power Electronics Applications, Aalborg University (Lecturer Prof.

Huai Wang), 2018

Education Management and Planning, Ulakbim Eğitim ve Yazar 6. Eğitim Semineri, TÜBİTAK, 2015

Quality Management, TSE Temel, Dokümantasyon, İç Tetkik ve Ölçüm Belirsizliği, TSE, 2014

Education Management and Planning, Fizik ve Yenilikçi Teknolojiler Çalıştayı, RTE Üniversitesi, 2014

IT, Uygulamalı Matlab Eğitim Semineri, FİGES, Rize Üniversitesi, 2010

Other, Doğu Karadeniz Bölgesi Enerji Forumu, EMO-KTÜ, 2009

Dissertations

Doctorate, Karma Enerji Sistemi İçin Paralel Bağlı Azaltan-Artıran Çevirici Tasarımı ve Denetimi, Karadeniz Technical University, Güneysu Fizik Tedavi ve Rehabilitasyon Yüksekokulu, Elektrik Elektronik Mühendisliği Anabilim Dalı , 2014

Postgraduate, Senkron Buck Dönüştürücü İle Elektroliz Olayının Gerçekleştirilmesi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı , 2006

Research Areas

Electrical and Electronics Engineering, Electronic, Electronic Circuits, Electromagnetic, Electromagnetic Environment and Interaction, Energy, Direct Energy Conversion and Energy Storage, Renewable energy, Power Electronics, Power Converters, Chemistry, Physical Chemistry, Electrochemistry, Natural Sciences, Engineering and Technology

Academic Positions

Associate Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2021 - Continues

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2018 - 2021

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2015 - 2018

Lecturer, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2007 - 2015

Academic and Administrative Experience

Head of Department, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİ, 2024 - Continues

Fakülte Kurulu Üyesi, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİ, 2023 - Continues

Recep Tayyip Erdogan University, Elektrik Elektronik Mühendisliği, 2018 - 2019

Recep Tayyip Erdogan University, Fizik, 2012 - 2012

Recep Tayyip Erdogan University, Fizik, 2012 - 2012

Courses

Postgraduate

Proses Kontrol ve Enstrumantasyon, Postgraduate, 2017 - 2018

Undergraduate

Ölçme Teknikleri ve Enstrumantasyon, Undergraduate, 2018 - 2019

Elektrik Makinaları II, Undergraduate, 2017 - 2018

Kontrol Sistemleri, Undergraduate, 2017 - 2018
Devre Teorisi ve Analizi, Undergraduate, 2017 - 2018
Elektrik Makinaları I, Undergraduate, 2017 - 2018
Elektrik Makinaları, Undergraduate, 2017 - 2018
Elektrik-Elektronik (5 Yıl), Undergraduate, 2014 - 2015
Elektrik Müh. Giriş, Undergraduate, 2015 - 2016
Devre Analizi, Undergraduate, 2014 - 2015
Elektronikte Özel Konular, Undergraduate, 2012 - 2013
Yenilenebilir Enerji Kaynakları, Undergraduate, 2012 - 2013
TEMEL BİLGİSAYAR I-II (C++, MATLAB), Undergraduate, 2011 - 2012
Bilgisayara Giriş I-II(Ofis Progrmaları-Axcess-Front Page), Undergraduate, 2009 - 2010
Elektronik I-II Laboratuvarı (5 YIL), Undergraduate, 2007 - 2008
Bitirme Çalışması (5 Yıl), Undergraduate, 2007 - 2008

Supervised Theses

Şahin M. E., Kahveci H., Transformerless photovoltaic system fed single phase induction motor driver for water pumping, Postgraduate, S.FAIZAN(Student), 2020
ŞAHİN M. E., DESIGN AND IMPLEMENTATION OF SINGLE INPUT MULTIPLE OUTPUT (SIMO) DC-DC BUCK CONVERTER FOR SOLAR ENERGY APPLICATION, Postgraduate, I.Abdillahi(Student), 2018

Advising Graduates (Non-Thesis)

Şahin M. E., İNŞAAT SEKTÖRÜNDE YAPAY ZEKA UYGULAMALARI VE RİSK YÖNETİMİ (Monte Carlo Yöntemi, Masters (Non-Thesis), G.OKAY(Student), 2021
Şahin M. E., ENDÜSTRİ 4.0'IN İŞ SAĞLIĞI VE GÜVENLİĞİNE KATKILARI VE HATA TÜRÜ VE ETKİLERİ ANALİZİ(FMEA) RİSK DEĞERLENDİRME METODUYLA BİR İNCELEME, Masters (Non-Thesis), İ.TOPALOĞLU(Student), 2021
Şahin M. E., İŞ SAĞLIĞI VE GÜVENLİĞİNDEKİ RİSK DEĞERLENDİRMELERİNDE YAPAY SİNİR AĞLARININ ETKİSİ, Masters (Non-Thesis), F.ATCI(Student), 2021
Şahin M. E., NESNELERİN İNTERNETİ UYGULAMALARINDA RİSK DEĞERLENDİRMESİ VE İŞ GÜVENLİĞİ İLİŞKİSİ, Masters (Non-Thesis), İ.BİLİCİ(Student), 2021
Şahin M. E., TURİZM SEKTÖRÜNDE ENDÜSTRİ 4.0 ALANINDA Kİ RİSK DEĞERLENDİRME UYGULAMALAR, Masters (Non-Thesis), N.KURUOĞLU(Student), 2021

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Recep Tayyip Erdoğan Üniversitesi, December, 2022
Academic Staff Examination, Öğretim Görevlisi Alım Sınavı , Rize Üniversitesi Meslek Yüksek Okulu , December, 2010
Competition, Eğitim Öğretim Yılı Eğitim Kurumları Arası Proje Tabanlı Beceri Yarışması İl Değerlendirme Komisyonu Üyesi, MEB, February, 2010
Competition, Eğitim Öğretim Yılı Eğitim Kurumları Arası Proje Tabanlı Beceri Yarışması İl Değerlendirme Komisyonu Üyesi, MEB, January, 2009

Journal articles indexed in SCI, SSCI, and AHCI

1. **Single Phase Induction Motor Driver for Water Pumping Powered by Photovoltaic System**
Bukhari S. F. A., KAHVECİ H., ŞAHİN M. E.

Electronics (Switzerland), vol.14, no.6, 2025 (SCI-Expanded)

- II. **Development of quasi-flexible solid polymer blend electrolytes and boron carbide reinforced tea waste electrodes for supercapacitors**
Manfo T. A., ŞAHİN M. E., BAL ALTUNTAŞ D.
Journal of Energy Storage, vol.111, 2025 (SCI-Expanded)
- III. **An experimental study on the effect of non-ionizing electromagnetic fields on honey bees**
AS N., KARAN Y., DİZMAN S., Sayi B. C., Kuvanci A., Cinbirtoğlu Ş., Öztürk S. H., ŞAHİN M. E.
Electromagnetic Biology and Medicine, vol.44, no.1, pp.65-78, 2025 (SCI-Expanded)
- IV. **Green hydrogen revolution for a sustainable energy future**
Sebbagh T., ŞAHİN M. E., Beldjaatit C.
Clean Technologies and Environmental Policy, vol.26, no.12, pp.4017-4040, 2024 (SCI-Expanded)
- V. **An Overview of Different Water Electrolyzer Types for Hydrogen Production**
ŞAHİN M. E.
Energies, vol.17, no.19, 2024 (SCI-Expanded)
- VI. **Challenges and Future Perspectives on Production, Storage Technologies, and Transportation of Hydrogen: A Review**
Omid M. A., ŞAHİN M. E., CORA Ö. N.
Energy Technology, vol.12, no.4, 2024 (SCI-Expanded)
- VII. **An investigation on supercapacitors applications with module designing and testing**
ŞAHİN M. E.
JOURNAL OF ENGINEERING RESEARCH, vol.10, no.4A, pp.297-315, 2022 (SCI-Expanded)
- VIII. **PV Powered Hybrid Energy Storage System Control Using Bidirectional and Boost Converters**
Şahin M. E., Blaabjerg F.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.49, no.15, pp.1260-1277, 2022 (SCI-Expanded)
- IX. **A Comprehensive Review on Supercapacitor Applications and Developments**
ŞAHİN M. E., Blaabjerg F., Sangwongwanich A.
ENERGIES, vol.15, no.3, 2022 (SCI-Expanded)
- X. **Design and Implementation of Single-Input Multiple-Output DC-DC Buck Converter for Electric Vehicles**
Aden I. A., KAHVECİ H., ŞAHİN M. E.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.30, no.13, 2021 (SCI-Expanded)
- XI. **Parallel-Connected Buck-Boost Converter with FLC for Hybrid Energy System**
Şahin M. E., Okumuş H. İ.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.48, no.19-20, pp.2117-2129, 2021 (SCI-Expanded)
- XII. **An Overview on MOSFET Drivers and Converter Applications**
ŞAHİN M. E., Blaabjerg F.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.49, no.8, pp.828-847, 2021 (SCI-Expanded)
- XIII. **A photovoltaic powered electrolysis converter system with maximum power point tracking control**
Sahin M. E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, pp.9293-9304, 2020 (SCI-Expanded)
- XIV. **A Hybrid PV-Battery/Supercapacitor System and a Basic Active Power Control Proposal in MATLAB/Simulink**
Sahin M. E., Blaabjerg F.
ELECTRONICS, vol.9, 2020 (SCI-Expanded)
- XV. **An Efficient Switched Filter Compensation Used LED Lighting PV-Battery Scheme**
Sharaf A. M., Sahin M. E.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.27, no.10, 2018 (SCI-Expanded)
- XVI. **Comparison of Different Controllers and Stability Analysis for Photovoltaic Powered Buck-Boost DC-DC Converter**
Sahin M. E., OKUMUŞ H. İ.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.46, no.2, pp.149-161, 2018 (SCI-Expanded)

- XVII. **Investigation of GSM, LTE and Wi-Fi Electromagnetic Radiation in Dwellings**
Karan Y., As N., Sahin M. E.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.509-512, 2017 (SCI-Expanded)
- XVIII. **The Design Steps of a Hybrid Energy System**
Sahin M. E., OKUMUŞ H. İ.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.1160-1164, 2017 (SCI-Expanded)
- XIX. **Design of a Laboratory Unit Air-Conditioning System with Matlab/Simulink Software**
KOCYIGIT N., ŞAHİN M. E.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.839-842, 2017 (SCI-Expanded)
- XX. **A Flexible PV-Powered Battery-Charging Scheme for Electric Vehicles**
Sharaf A. M., Sahin M. E.
IETE TECHNICAL REVIEW, vol.34, no.2, pp.133-143, 2017 (SCI-Expanded)
- XXI. **Design of Wave Energy Converter System with Linear Generator**
Sahin M. E., OZDINC I.
ACTA PHYSICA POLONICA A, vol.128, 2015 (SCI-Expanded)
- XXII. **Implementation of an electrolysis system with DC/DC synchronous buck converter**
Şahin M. E., Okumuş H. İ., Aydemir M. T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.13, pp.6802-6812, 2014 (SCI-Expanded)
- XXIII. **Fuzzy logic controlled parallel connected synchronous buck DC-DC converter for water electrolysis**
Sahin M. E., OKUMUŞ H. İ.
IETE JOURNAL OF RESEARCH, vol.59, no.3, pp.280-288, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Development of an Automatic Photovoltaic Cell-Battery Powered Water Irrigation System Incorporated with Arduino Software for Agricultural Activities**
Theodore A. M., ŞAHİN M. E.
Gazi Mühendislik Bilimleri Dergisi, vol.10, no.2, pp.314-328, 2024 (Peer-Reviewed Journal)
- II. **Modeling and Simulation of a Series and Parallel Battery Pack Model in MATLAB/Simulink**
ŞAHİN M. E., Theodore A. M.
Turkish Journal of Electrical Power and Energy Systems, vol.4, no.1, pp.2-12, 2024 (Peer-Reviewed Journal)
- III. **A Study on Deep Learning and Artificial Neural Network Models**
akın e., sahin m. e.
EMO Bilimsel Dergi, vol.14, no.1, pp.27-38, 2024 (Peer-Reviewed Journal)
- IV. **Derin Öğrenme ve Yapay Sinir Ağı Modelleri Üzerine Bir İnceleme**
AKIN E., ŞAHİN M. E.
EMO Bilimsel Dergi, vol.14, no.1, pp.27-38, 2024 (Peer-Reviewed Journal)
- V. **Intercalation reaction in lithium-ion battery: effect on cell characteristics**
Theodore A. M., ŞAHİN M. E.
The International Journal of Materials and Engineering Technology (, vol.6, no.2, pp.70-78, 2023 (Peer-Reviewed Journal)
- VI. **Bulanık Mantık Kavramına Genel Bir Bakış**
YILMAZ H., ŞAHİN M. E.
Takvim-i Vekayi, vol.11, no.1, pp.94-129, 2023 (Peer-Reviewed Journal)
- VII. **Cevizlik Hidroelektrik Santralinde Soğutma Suyu Sistemi ve İncelenmesi**
KURTULUŞ O., ŞAHİN M. E., EROĞLU H.
Türk Hidrolik Dergisi, vol.6, no.2, pp.47-56, 2022 (Peer-Reviewed Journal)
- VIII. **New Era in Scientific Studies After Covid-19: Remote Research**
CORA Ö. N., ŞAHİN M. E.
Turkish Journal of Electromechanics & Energy, vol.7, no.1, pp.1-2, 2022 (Peer-Reviewed Journal)

- IX. **Parametre Kestirimi Newton-Raphson Yöntemiyle Yapılan MATLAB/GUI Tabanlı Fotovoltaik Sistem Simülâtörü**
Buldu İ., ŞAHİN M. E.
Gazi Mühendislik Bilimleri Dergisi, vol.7, no.3, pp.196-212, 2021 (Peer-Reviewed Journal)
- X. **Endüstri 4.0'ın İş Sağlığı ve Güvenliğine Katkıları ve Hata Türü ve Etkileri Analizi (FMEA) Risk Değerlendirme Metoduyla Ambulansta Bir İnceleme**
Topaloğlu İ., ŞAHİN M. E.
Takvim-i Vekayi, vol.9, no.2, pp.66-94, 2021 (Peer-Reviewed Journal)
- XI. **Investigation of vertical axis wind turbines and the design of their components**
Boztaş A., Demirbaş O., ŞAHİN M. E.
Turkish Journal of Electromechanics and Energy, vol.6, no.2, pp.64-72, 2021 (Peer-Reviewed Journal)
- XII. **Recep Tayyip Erdoğan Üniversitesi Merkez Kampüsünde Elektromanyetik Alan Kirlilik Ölçümü ve Spektrum Analizi**
DİLEK B., AS N., ŞAHİN M. E.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.2, no.1, pp.53-65, 2021 (Peer-Reviewed Journal)
- XIII. **Modelling of Supercapacitors Based on Simplified Equivalent Circuit**
Şahin M. E., Blaabjerg F., Sangwongwanich A.
CPSS Transactions on Power Electronics and Applications, vol.6, no.1, pp.31-39, 2021 (Peer-Reviewed Journal)
- XIV. **A Review on Supercapacitor Materials and Developments**
ŞAHİN M. E., Blaabjerg F., Sangwongwanich A.
Turkish Journal of Materials, vol.5, no.2, pp.10-24, 2020 (Peer-Reviewed Journal)
- XV. **Inductance Selection Criteria and Design Steps for Power Electronics Applications**
Şahin M. E.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.3, pp.689-695, 2020 (Peer-Reviewed Journal)
- XVI. **IG ve DFIG lerin Rüzgar Gücü Üretim Sistemleri İçin Karşılaştırılması**
ŞAHİN M. E.
Gazi Journal of Engineering Sciences, vol.6, no.3, pp.230-241, 2020 (Peer-Reviewed Journal)
- XVII. **Açık Deniz Rüzgâr Sistemleri Üzerine Bir İnceleme ve Danimarka Modeli**
Şahin M. E.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.1, no.1, pp.54-67, 2020 (Peer-Reviewed Journal)
- XVIII. **Energy Management and Measurement of Computer Controlled Solar House Model for Rize City**
ŞAHİN M. E.
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.404-414, 2020 (Peer-Reviewed Journal)
- XIX. **An Efficient Solar-Hydrogen DC-DC Buck Converter System with Sliding Mode Control**
ŞAHİN M. E.
El-Cezeri Fen ve Mühendislik Dergisi, vol.6, no.3, pp.558-570, 2019 (Peer-Reviewed Journal)
- XX. **Refreshing Turkish Journal of Electromechanics & Energy in its Fourth Year**
ŞAHİN M. E., CORA Ö. N.
Turkish Journal of Electromechanics & Energy, vol.4, no.1, pp.1-2, 2019 (Peer-Reviewed Journal)
- XXI. **Yapay Sinir Ağları ve Yapay Zekâ'ya Genel Bir Bakış**
Öztürk K., ŞAHİN M. E.
Takvim-i Vekayi, vol.6, no.2, pp.25-36, 2018 (Peer-Reviewed Journal)
- XXII. **Single Input, Multiple Output DC-DC Buck Converter for Electric Vehicles**
Aden İ. A., Kahveci H., Şahin M. E.
Turkish Journal of Electromechanics and Energy, vol.2, no.2, pp.7-13, 2017 (Peer-Reviewed Journal)
- XXIII. **Second Year with "Turkish Journal of Electromechanics & Energy"**
ŞAHİN M. E.
Turkish Journal of Electromechanics and Energy, vol.2, no.1, pp.1-2, 2017 (Peer-Reviewed Journal)

- XXIV. **Introducing “Turkish Journal of Electromechanics & Energy”**
CORA Ö. N., ŞAHİN M. E.
Turkish Journal of Electromechanics and Energy, vol.1, no.1, pp.1-4, 2016 (Peer-Reviewed Journal)
- XXV. **Physical Structure, Electrical Design, Mathematical Modeling and Simulation of Solar Cells and Modules**
ŞAHİN M. E., OKUMUŞ H. İ.
Turkish Journal of Electromechanics and Energy, vol.1, no.1, pp.5-12, 2016 (Peer-Reviewed Journal)
- XXVI. **KTÜ TEMİZ ENERJİ EVİ**
ŞAHİN M. E.
EMO ŞUBE BULTENİ, vol.2, no.2, pp.30-34, 2015 (Non Peer-Reviewed Journal)
- XXVII. **Electromagnetic pollution measurement in the RTE university campus area**
Dilek B., As N., Şahin M. E., Karan Y.
Global Journal on Advances Pure and Applied Sciences, no.3, pp.65-72, 2014 (Peer-Reviewed Journal)
- XXVIII. **KTÜ Temiz Enerji Evinin Kurulması ve Temel Uygulamalar**
ŞAHİN M. E., OKUMUS H. I.
Faal Enerji Dergisi, vol.1, no.15, pp.34-36, 2013 (Non Peer-Reviewed Journal)
- XXIX. **Modeling and Simulation of Solar Cell Module in Matlab Simulink**
ŞAHİN M. E., OKUMUŞ H. İ.
EMO BİLİMSEL DERGİSİ, vol.3, no.5, pp.17-25, 2013 (Peer-Reviewed Journal)
- XXX. **Güneş Pili Modülünün Matlab/Simulink ile Modellenmesi ve Simülasyonu (Modeling and Simulation of Solar Cell Module in Matlab/Simulink)**
ŞAHİN M. E., OKUMUS H. I.
EMO Bilimsel Dergi (The Journal of Electrical, Electronics, Computer and Biomedical Engineering), vol.3, no.5, pp.17-25, 2013 (Peer-Reviewed Journal)
- XXXI. **Selective Radiation Measurement for Safety Evaluation on Base Stations**
Şahin M. E., Karan Y., As N.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.26, no.1, pp.73-83, 2013 (Scopus)
- XXXII. **A novel filter compensation scheme for single phase-self-excited induction generator micro wind generation system**
Şahin M. E., Okumuş H. İ., Sharaf A. M.
SCIENTIFIC RESEARCH AND ESSAYS, vol.7, no.34, pp.3058-3072, 2012 (Peer-Reviewed Journal)
- XXXIII. **Dalga Enerjisi ve Deniz Dalgalarından Elektrik Enerjisi Üretim Yöntemleri**
ŞAHİN M. E., OKUMUS H. I., AKPINAR A. S.
FAAL ENERJİ DERGİSİ, vol.1, no.2, pp.94-95, 2011 (Non Peer-Reviewed Journal)
- XXXIV. **Dalga Enerjisi ve Ekonomisi**
ŞAHİN M. E., AKPINAR A. S., OKUMUS H. I.
EMO Trabzon Şube Bülteni, vol.1, no.2011, pp.26-28, 2011 (Non Peer-Reviewed Journal)
- XXXV. **Seviye Sensörleri Ve Uygulamaları**
ŞAHİN M. E.
OTOMASYON DERGİSİ, vol.1, no.6, pp.1, 2010 (Non Peer-Reviewed Journal)

Books

- I. **A Robust Decoupled Microgrid Charging Scheme Using a DC Green Plug-Switched Filter Compensator**
ŞAHİN M. E., Sharaf A.
in: Fast Charging and Resilient Transportation Infrastructures in Smart Cities, Hossam A. Gabbar, Editor, Springer Nature, AG, pp.89-116, 2022
- II. **Devre Analizi ve Ölçme Bilgisi Laboratuvarı Deneyleri (Bilgisayar Destekli ve Konu Anlatımlı)**
ŞAHİN M. E.
Nobel Akademik Yayıncılık, Ankara, 2020

- III. **DEVRE ANALİZİ VE ÖLÇME BİLGİSİ LABORATUVARI DENEYLERİ (Bilgisayar Destekli ve Konu Anlatımlı)**
ŞAHİN M. E.
Nobel Akademik Yayıncılık, Ankara, 2018
- IV. **ELEKTRONİK LABORATUVARI DENEYLERİ -Bilgisayar Destekli ve Konu Anlatımlı**
ŞAHİN M. E.
Nobel Akademik Yayıncılık, Ankara, 2018
- V. **Devre Analizi ve Ölçme Bilgisi Laboratuvarı Deneyleri (Bilgisayar Destekli Konu Anlatımlı)**
ŞAHİN M. E.
Nobel Yayın Dağıtım, Ankara, 2017

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Enhancing Flexible Polymer Electrolytes and Optimized Activated Carbon Mixed Hazelnut Shell Electrodes for Supercapacitor Applications**
Boukhoudem K., Theodore A. M., ŞAHİN M. E., Slamani A., Hadjersi T.
2nd International Conference on Materials for Energy & Environmental Engineering, Cezayir, Algeria, 26 - 28 November 2024, (Full Text)
- II. **Design, Control and Integration of Synchronous DC-DC Step Down Converter with Hybrid Controller Created Using ANN and PID in MATLAB/Simulink Environment to Electrolysis System**
AKIN E., ŞAHİN M. E.
4th International Conference on Energy, Environment and Storage of Energy (ICEESEN 2024), Nevşehir, Turkey, 4 - 07 September 2024, pp.457-465, (Full Text)
- III. **Development of Flexible Polymer Electrolytes and Suitable Deriving Activated Carbon Mixed Hazelnut Shell Electrodes for Super Capacitors**
Boukhoudem K., Theodore A. M., ŞAHİN M. E.
5 th International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 25 - 27 September 2024, (Full Text)
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- V. **Development of Flexible Polymer Electrolytes and Suitable Deriving Boron Carbide Mixed Tea Waste Electrodes for Supercapacitors**
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- XVI. **Power Electronic Converters in Microgrid and Renewable Energy Sources**
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- XVII. **An Efficient PV Powered Battery Charging DC Green Plug Sscheme**
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- XVIII. **Investigation of Vertical Axis Wind Turbines And Their Componenets Design**
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- XIX. **Açık Deniz (Offshore) Rüzgâr Sistemleri ve Danimarka Örneğinin İncelenmesi**
ŞAHİN M. E.
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- XX. **Comparison of IG and DFIG for Wind Power Generation Systems**
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3rd International Conference on AdvancedEngineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, (Full Text)
- XXI. **A Photovoltaic Powered Electrolysis Converter System with Maximum Power Point Tracking Control**
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International Conference on Chemical Energy Semiconductor Photochemistry, Trabzon, Turkey, 4 - 06 September 2019, (Summary Text)
- XXII. **A hybrid PV-Battery/Supercapacitor System and a Basic Active Power Control Proposal in MATLAB/Sİmulink**
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- XXIII. **INDUCTANCE SELECTION CRITERIA AND DESIGN STEPS FOR POWER ELECTRONICS APPLICATIONS**
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- XXV. **Experimental Setup for Analyzing Electromagnetic Radiation Effect on Bees and Bee Products**
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- XXVI. **Bayburt City Beşpinar Town Electromagnetic Pollution Measurements**
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- XXVII. **Single Input Multiple Output DC/DC Buck Converter for Electric Vehicles**
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- XXVIII. **A Novel Efficient PV - Battery Powered LED Lighting Scheme**
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- XXX. **The Design Steps of a Hybrid Renewable Energy System**
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- XXXI. **Investigation of GSM LTE and Wi Fi Electromagnetic Radiation in Dwellings**
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- XXXIII. **Design of Wave Energy Converter System with Linear Generator**
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- XXXV. **Yüksek Kazançlı Kablosuz Ağ Adaptörlerinde Elektromanyetik Radyasyon Analizi**
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- XXXVII. **RTE Üniversitesi Merkez Kampüs Güney Hattı Boyunca Elektromanyetik Kirlilik Ölçümü**
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9TH International Conference on Electronics and Computation(ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, vol.1, pp.195-198, (Full Text)
- XLI. **A Fuzzy Logic Controlled PV Powered Buck-Boost DC-DC Converter for Battery-Load System**
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International Symposium on INnovations in Intelligent SysTems and Applications IEEE Conference, Trabzon, Turkey, 2 - 04 July 2012, vol.1, pp.1-5, (Full Text)
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- XLV. **Spectrum analyzer measurement technique for safety evaluation on wireless communication systems**
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- XLVI. **Fuzzy Logic Controlled Buck-Boost DC-DC Converter for Solar Energy-Battery System**
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International Symposium on INnovations in Intelligent SysTems and Applications IEEE Conference, İstanbul, Turkey, 15 - 18 June 2011, vol.1, pp.394-397, (Full Text)
- XLVII. **Elektroliz sistemi için eş zamanlı azaltan dönüştürücü**
ŞAHİN M. E., OKUMUŞ H. İ.
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- XLVIII. **Eş Zamanlı Azaltan Dönüştürücü Devresi İle Tasarlanmış Bir Elektroliz Sistemi ile Hidrojen Elde Etme**
ŞAHİN M. E., OKUMUS H. I.
ELECO 2010 IEEE Conference, Bursa, Turkey, 2 - 05 December 2010, vol.1, pp.58-62, (Full Text)
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- L. **Design and Analysis of Fuzzy Controller for a Single Holding Tank**
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International Symposium on INnovations in Intelligent SysTems and Applications, Kayseri, Turkey, 21 - 24 June 2010, vol.1, pp.250-254, (Full Text)
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LII. Rize İli için Tasarlanmış Bilgisayar Kontrollü Güneş Evi Modeli

ŞAHİN M. E., NEVRUZOĞLU V., ŞENYURT Ö.

Ulusal Hidrojen Enerjisi Kongresi ve Sergisi(Uluslararası Katılımlı), Kocaeli, Turkey, 15 - 16 October 2009, vol.1, pp.273-278, (Full Text)

LIII. Fuzzy Logic Controlled Synchronous Buck DC DC Converter Ior Solar Energy Hydrogen Systems

ŞAHİN M. E., OKUMUŞ H. İ.

INISTA 2009, 23 - 30 June 2009, (Full Text)

LIV. Fuzzy Logic Controlled Synchronous Buck DC-DC Converter for Solar Energy-Hydrogen Systems

ŞAHİN M. E., OKUMUS H. I.

International Symposium on INnovations in İntelligent SysTEms and Applications, Trabzon, Turkey, 29 June - 01 July 2009, vol.1, pp.200-204, (Full Text)

LV. Computer Controlled Solar House

Şenyurt Ö., NEVRUZOĞLU V., ŞAHİN M. E.

Balkan Physical Union 2ND International Physics Project Competition For University, Bodrum, Turkey, 18 - 20 August 2008, pp.101, (Summary Text)

Funded Projects

Şahin M. E., TUBITAK Project, Süperkapasitörler İçin Yüksek Yüzey Alanlı Elektrotlar Ve Atıklardan Katı Polimer Elektrolit Geliştirilmesi, 2024 - 2024

AS N., İNCE B. E., ŞAHİN M. E., KARAN Y., DİZMAN S., SAYI B. C., KUVANCI A., ÖZTÜRK H., CINBIRTOĞLU Ş., AYDIN E.,

Project Supported by Higher Education Institutions, İyonize Olmayan Elektromanyetik Radyasyonun Bal Arıları ve Bal Üretimi Üzerindeki Etkilerinin İncelenmesi, 2017 - 2019

AS N., DİZMAN S., KARAN Y., ŞAHİN M. E., Dilek B., Project Supported by Higher Education Institutions, Çevrede Bulunan İyonize Olamayan Elektromanyetik Alan (0-300 GHz) Kirliliğinin ve Elektromanyetik Alanların Vücut Yüzeyinde Oluşturduğu Isıl Değişimlerin İncelenmesi, 2013 - 2016

TUBITAK Project, Karma (Fotovoltaik/Rüzgâr) Enerji Sistemi İçin Bulanık Kayan Kip (Fuzzy-Sliding Mode) Denetimli Paralel Bağlı Azaltan-Artıran (Buck-Boost) Çevirici Tasarımı Ve Güç Analizinin Yapılması, 2012 - 2013

KOÇYİĞİT N., ŞAHİN M. E., Project Supported by Higher Education Institutions, Bilgisayar Kontrollü Elektronik İklimlendirme Sistemi Yapımı, 2010 - 2012

Student Project

R & D Project, Yerleşim Alanları Dışında Kullanılmak Üzere DC ve AC Girişli-Portatif Düşük Güçlü Rezonans İndüksiyon Isıtıcı Tasarımı, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİ, Turkey, 2024 - Continues

Activities in Scientific Journals

International Journal of Energy and Environmental Science, Committee Member, 2016 - Continues

Turkish Journal of Electromechanics and Energy, First Editor, 2014 - Continues

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Editor, 2015 - 2019

Memberships and Roles in Scientific Organizations

IEEE , Member, 2024 - Continues, United States Of America

Elektrik Mühendisleri Odası, Member, 2002 - Continues

Peer Reviews in Scientific Publications

JOURNAL OF CIRCUITS, SYSTEMS AND COMPUTERS, SCI Journal, December 2022

ENERGIES, SCI Journal, December 2022

International Journal of Energy Research, SCI Journal, September 2016

Journal of Circuits, Systems, and Computer (sürekli), National Scientific Refreed Journal, June 2015

Gazi University Journal of Science, Other Indexed Journal, April 2015

Gazi University Journal of Science Part A:Engineering and Innovation, Other Indexed Journal, April 2015

Turkish Journal of Electrical Engineering & Computer Sciences(Sürekli), SCI Journal, January 2015

International Journal of Hydrogen Energy,, SCI Journal, July 2014

British Journal of Applied Science & Technology, Other Indexed Journal, June 2013

Scientific Research and Essays, SCI Journal, May 2013

EMO Bilimsel Dergisi, Other Indexed Journal, May 2013

Instrumentation Science & Technology , Taylor & Francis,, SCI Journal, February 2013

Electric Power Components and Systems, Taylor & Francis, SCI Journal, January 2012

Scientific Project Refereeing

February 2015

Scientific Research / Working Group Memberships

Recep Tayyip Erdoğan Üniversitesi Elektromanyetik Uygulama ve Araştırma Merkezi,, RECEP TAYYİP ERDOĞAN ÜNİVERSİTESİ, Turkey, <http://remam.idari.erdogan.edu.tr/tr/>, 2016 - Continues

Metrics

Publication: 120

Citation (WoS): 139

Citation (Scopus): 271

H-Index (WoS): 7

H-Index (Scopus): 9

Congress and Symposium Activities

IEEE 7th CORPE Symposium, Attendee, Aalborg, Denmark, 2019

IEEE Workshop on Representations of Power Electronics for Grid Dynamic Studies, Attendee, Aalborg, Denmark, 2018

Scholarships

2219 Doktora sonrası araştırma, TÜBİTAK, 2018 - 2019

1002 Bursu, TÜBİTAK, 2012 - 2013

Awards

ŞAHİN M. E., Yayın Teşvik Ödülü, RTE Üniversitesi, May 2019

ŞAHİN M. E., Yayın Teşvik Ödülü, RTE Üniversitesi, April 2018

ŞAHİN M. E., Yayın teşvik ödülü, TÜBİTAK, April 2017

Şahin M. E., Yayın Teşvik Ödülü, Tübitak, December 2015

ŞAHİN M. E., Tut elimden adlı proje yarışması ödülü, TTSO-KTU, December 2013

Visual Activities

ŞAHİN M. E., Radio Program, 2020 - 2020

Non Academic Experience

Business Establishment Private, Denetim Şirketi

Other Public Institution, Meb