

## Prof. Dr. AHMET TEKE

### Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: E-7411-2018

Yoksis Araştırmacı ID: 124463

### Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Türkiye 2006 - 2011

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Türkiye 2002 - 2005

Lisans, Çukurova Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Türkiye 1997 - 2002

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Sertifika, Kurs ve Eğitimler

Yenilenebilir Enerji Kaynakları, Kurumsal Karbon Ayak İzi ve Yeşil Mutabakat Bilgilendirme Eğitimi, QSI, 2022

Kalite Yönetimi, ISO 50001:2018 Baş Tetkikçi Eğitimi, BSI Eğitim Akademisi, 2020

Mesleki Eğitim, Sanayide Enerji Yöneticisi, EDSM Enerji, 2010

### Yaptığı Tezler

Doktora, UNIFIED POWER QUALITY CONDITIONER: DESIGN, SIMULATION AND EXPERIMENTAL ANALYSIS, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, 2011

Yüksek Lisans, Modelling of Dynamic Voltage Restorer , Çukurova Üniversitesi, Mühendislik Mimarlık, Elektrik Elektronik Mühendisliği, 2005

### Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Enerji, Aydınlatma Teknolojisi , Enerji Üretim İstasyonları ve Tesisleri , Yenilenebilir Enerji, Yüksek Gerilim Teknikleri , Güç Elektronikliği, Elektrik Motoru Sürücüler, Güç Çevirgeçleri, Güç Kalitesi, Güneş Enerjisi, Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Prof. Dr., Çukurova Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Devam Ediyor  
Doç. Dr., Çukurova Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2015 - 2020  
Yrd. Doç. Dr., Çukurova Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2011 - 2015  
Araştırma Görevlisi, Çukurova Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2005 - 2011

## Verdiği Dersler

High Voltage Techniques, Lisans, 2021 - 2022, 2015 - 2016  
Utilization of electrical Energy, Lisans, 2019 - 2020  
Illumination Techniques, Lisans, 2013 - 2014, 2012 - 2013  
Electrical Power Generation And Renewable Energy Systems, Lisans, 2012 - 2013  
Industrial Electronics, Lisans, 2012 - 2013  
Industrial Electricity, Lisans, 2012 - 2013  
Renewable Energy Systems, Yüksek Lisans, 2012 - 2013  
Electric Safety and Grounding System Design, Lisans, 2012 - 2013  
Custom Power Devices for Power Quality Enhancement, Doktora, 2012 - 2013

## Yönetilen Tezler

Teke A., Design and Power Quality Improvement of a Grid Connected Hybrid PV System, Yüksek Lisans, B.GÜZEY(Öğrenci), 2023  
Teke A., IMPLEMENTATION OF ACTIVE CELL BALANCING CIRCUIT FOR BATTERY MANAGEMENT SYSTEM IN ELECTRIC VEHICLES, Doktora, A.TÜRKSOY(Öğrenci), 2022  
Teke A., Optimal design of a hybrid PV-Battery System for on-grid applications, Yüksek Lisans, H.BOZKURT(Öğrenci), 2022  
Teke A., Design and analysis of high efficient AC-DC power factor corrected converters for on-board battery charging system in electric vehicles, Doktora, Ö.TÜRKSOY(Öğrenci), 2020  
Teke A., Investigation of high efficient DC-DC converters for on-board battery charging system in electric vehicles, Doktora, Ü.YILMAZ(Öğrenci), 2020  
Teke A., Controller design and experimental verification of grid-connected microinverters for photovoltaic applications, Doktora, Ö.ÇELİK(Öğrenci), 2019  
Teke A., Research and application of real-time short-term electrical energy consumption forecasting using artificial intelligence based techniques, Doktora, K.ZOR(Öğrenci), 2019  
Teke A., Distributed solar power generation effects on short circuit protection of distribution network: New techniques for improvements regarding adverse effects, Yüksek Lisans, E.YILDIRIM(Öğrenci), 2018  
Teke A., Design and implementation of a wireless sensor network for energy monitoring, analysis and management in smart buildings, Doktora, O.TİMUR(Öğrenci), 2018  
Teke A., Optimal design and research on multi objective control strategy for multilevel multifunctional inverter in large scale grid connected photovoltaic system, Doktora, M.BARGHI(Öğrenci), 2017  
Teke A., Introducing novel models to estimate global solar radiation based on meteorological parameters in Eastern Mediterranean Region, Doktora, H.BAŞAK(Öğrenci), 2016  
Teke A., Design and simulation of dstatcom for power quality improvements, Yüksek Lisans, Y.YOLDAŞ(Öğrenci), 2015

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TEKE A., Developing a Software Program to Determine the Optimal Capacity Rating of Cogeneration and Trigenation Plants Driven by Gas Engines for Unlicensed Generation of Electricity, Yüksek Lisans, K.Zor(Öğrenci), 2015

TEKE A., OPTIMAL DESIGN AND RESEARCH ON MULTI OBJECTIVE CONTROL STRATEGY FOR MULTILEVEL MULTIFUNCTIONAL INVERTER IN LARGE SCALE GRID CONNECTED PHOTOVOLTAIC SYSTEM, Doktora, M.Barghi(Öğrenci), 2013

TEKE A., Energy efficiency improvement and energy saving opportunities at Çukurova University BALCALI hospital, Yüksek Lisans, O.TİMUR(Öğrenci), 2013

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

- I. **Power quality enhancement in hybrid PV-BES system based on ANN-MPPT**  
BOZKURT H., ÇELİK Ö., TEKE A.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.32, sa.5, ss.662-681, 2024 (SCI-Expanded)
- II. **A fast and energy-efficient nonnegative least square-based optimal active battery balancing control strategy for electric vehicle applications**  
Turksoy A., TEKE A.  
ENERGY, cilt.262, 2023 (SCI-Expanded)
- III. **A hybrid random parameters modification to MPPT algorithm to mitigate interharmonics from single-phase grid-connected PV systems**  
Hussein I., Celik O., TEKE A.  
ENERGY REPORTS, cilt.8, ss.6234-6244, 2022 (SCI-Expanded)
- IV. **A novel gene expression programming-based MPPT technique for PV micro-inverter applications under fast-changing atmospheric conditions**  
celik O., Zor K., TAN A., TEKE A.  
SOLAR ENERGY, cilt.239, ss.268-282, 2022 (SCI-Expanded)
- V. **Evaluation of artificial neural network methods to forecast short-term solar power generation: a case study in Eastern Mediterranean Region**  
Bozkurt H., Macit R., Celik O., TEKE A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.30, sa.6, ss.2013-2030, 2022 (SCI-Expanded)
- VI. **Efficient AC-DC power factor corrected boost converter design for battery charger in electric vehicles**  
Turksoy O., Yilmaz U., Teke A.  
ENERGY, cilt.221, ss.1-18, 2021 (SCI-Expanded)
- VII. **A comprehensive overview of the dc-dc converter-based battery charge balancing methods in electric vehicles**  
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RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.133, 2020 (SCI-Expanded)
- VIII. **Improving a battery charger architecture for electric vehicles with photovoltaic system**  
YILMAZ Ü., Turksoy O., TEKE A.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.44, sa.6, ss.4376-4394, 2020 (SCI-Expanded)
- IX. **Improvement of energy harvesting capability in grid-connected photovoltaic micro-inverters**  
Celik O., Tan A., Inci M., Teke A.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (SCI-Expanded)
- X. **Short-Term Building Electrical Energy Consumption Forecasting by Employing Gene Expression Programming and GMDH Networks**  
Zor K., Celik O., TİMUR O., TEKE A.  
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- XI. **Improved MPPT method to increase accuracy and speed in photovoltaic systems under variable atmospheric conditions**  
YILMAZ Ü., Turksoy O., TEKE A.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, cilt.113, ss.634-651, 2019 (SCI-Expanded)
- XII. **Intelligent control of high energy efficient two-stage battery charger topology for electric vehicles**  
YILMAZ Ü., Turksoy O., TEKE A.  
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- XIII. **Distributed solar power application effects on short circuit protection in distributed generation - new techniques for short circuit protection in distributed generation**  
TEKE A., Yildirim E.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.34, sa.4, ss.2141-2158, 2019 (SCI-Expanded)
- XIV. **Minimizing Capacitance Value of Interleaved Power Factor Corrected Boost Converter for Battery Charger in Electric Vehicles**  
Turksoy O., Yilmaz U., TEKE A.  
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- XV. **A novel adaptive switching method to reduce DC-Link capacitor ripple in PV based grid-connected inverter**  
Turksoy A., Hames Y., TEKE A., Latran M. B.  
SOLAR ENERGY, cilt.173, ss.702-714, 2018 (SCI-Expanded)
- XVI. **Estimating daily Global solar radiation with graphical user interface in Eastern Mediterranean region of Turkey**  
YILDIRIM H. B., Çelik O., Teke A., Barutçu B.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.82, ss.1528-1537, 2018 (SCI-Expanded)
- XVII. **Evaluation of classical parametric models for estimating solar radiation in the Eastern Mediterranean region of Turkey**  
Yildirim H. B., TEKE A., Antonanzas-Torres F.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.82, ss.2053-2065, 2018 (SCI-Expanded)
- XVIII. **Overview of micro-inverters as a challenging technology in photovoltaic applications**  
ÇELİK O., TEKE A., TAN A.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.82, ss.3191-3206, 2018 (SCI-Expanded)
- XIX. **A Hybrid MPPT method for grid connected photovoltaic systems under rapidly changing atmospheric conditions**  
CELİK O., TEKE A.  
ELECTRIC POWER SYSTEMS RESEARCH, cilt.152, ss.194-210, 2017 (SCI-Expanded)
- XX. **Development and testing of an energy saving tool - Suitability analysis with case study**  
TEKE A., TİMUR O., BAYINDIR K. Ç.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, cilt.77, ss.59-69, 2016 (SCI-Expanded)
- XXI. **The optimized artificial neural network model with Levenberg-Marquardt algorithm for global solar radiation estimation in Eastern Mediterranean Region of Turkey**  
Çelik O., TEKE A., YILDIRIM H. B.  
JOURNAL OF CLEANER PRODUCTION, cilt.116, ss.1-12, 2016 (SCI-Expanded)
- XXII. **Multi-functional static synchronous compensator for distribution systems**  
Saribulut L., TEKE A., Latran M. B.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.31, sa.3, ss.728-737, 2016 (SCI-Expanded)
- XXIII. **Evaluation and performance comparison of different models for the estimation of solar radiation**  
TEKE A., YILDIRIM H. B., Çelik O.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.50, ss.1097-1107, 2015 (SCI-Expanded)
- XXIV. **A novel wavelet transform based voltage sag/swell detection algorithm**

- LATRAN M. B., TEKE A.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, cilt.71, ss.131-139, 2015 (SCI-Expanded)
- XXV. **Supplemental LED lighting increases pansy growth**  
KÖKSAL N., İNCESU M., TEKE A.  
HORTICULTURA BRASILEIRA, cilt.33, sa.4, ss.428-433, 2015 (SCI-Expanded)
- XXVI. **A simple methodology for capacity sizing of cogeneration and trigeneration plants in hospitals: A case study for a university hospital**  
TEKE A., ZOR K., TİMUR O.  
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, cilt.7, sa.5, 2015 (SCI-Expanded)
- XXVII. **Mitigation of power quality problems using distribution static synchronous compensator: a comprehensive review**  
Latran M. B., Teke A., Yoldas Y.  
IET POWER ELECTRONICS, cilt.8, sa.7, ss.1312-1328, 2015 (SCI-Expanded)
- XXVIII. **Investigation of multilevel multifunctional grid connected inverter topologies and control strategies used in photovoltaic systems**  
LATRAN M. B., TEKE A.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.42, ss.361-376, 2015 (SCI-Expanded)
- XXIX. **Experimental and simulation based study of an adaptive filter controlled solid state transfer switch**  
Meral M. E., CUMA M. U., TEKE A., TŪMAY M., BAYINDIR K. Ç.  
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- XXX. **Estimating the monthly global solar radiation for Eastern Mediterranean Region**  
TEKE A., YILDIRIM H. B.  
ENERGY CONVERSION AND MANAGEMENT, cilt.87, ss.628-635, 2014 (SCI-Expanded)
- XXXI. **Artificial neural network-based discrete-fuzzy logic controlled active power filter**  
SARIBULUT L., TEKE A., TŪMAY M.  
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- XXXII. **Assessing the energy efficiency improvement potentials of HVAC systems considering economic and environmental aspects at the hospitals**  
Teke A., Timur O.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.33, ss.224-235, 2014 (SCI-Expanded)
- XXXIII. **Review of Multifunctional Inverter Topologies and Control Schemes Used in Distributed Generation Systems**  
TEKE A., LATRAN M. B.  
JOURNAL OF POWER ELECTRONICS, cilt.14, sa.2, ss.324-340, 2014 (SCI-Expanded)
- XXXIV. **INVESTIGATION OF INVERTER BASED SHUNT COMPENSATORS FOR MITIGATION OF POWER QUALITY PROBLEMS IN POWER DISTRIBUTION SYSTEM**  
BARGHI LATRAN M., TEKE A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.29, sa.4, ss.793-805, 2014 (SCI-Expanded)
- XXXV. **Implementation of a Non-Linear Adaptive Filter Based Sag Detection Method for Dynamic Voltage Restorers under Unbalanced Fault Conditions**  
CUMA M. U., TEKE A., Meral M. E., BAYINDIR K. Ç., TŪMAY M.  
JOURNAL OF POWER ELECTRONICS, cilt.13, sa.2, ss.304-312, 2013 (SCI-Expanded)
- XXXVI. **OPEN unified power quality conditioner with control based on enhanced phase locked loop**  
TEKE A., Meral M. E., CUMA M. U., TŪMAY M., BAYINDIR K. Ç.  
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- XXXVII. **A practical disturbance generator to test performances of various power quality mitigation devices**  
TEKE A., Meral M. E., TŪMAY M., CUMA M. U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.21, sa.1, ss.38-54, 2013 (SCI-Expanded)
- XXXVIII. **Computer simulation and experimental implementation of a PIC-controlled hybrid multilevel inverter**

#### **for undergraduate laboratories**

Saribulut L., TEKE A., Meral M. E., TÜMAY M.

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XXXIX. **Vector-based reference location estimating for space vector modulation technique**

Saribulut L., TEKE A., TÜMAY M.

ELECTRIC POWER SYSTEMS RESEARCH, cilt.86, ss.51-60, 2012 (SCI-Expanded)

XL. **Experimental implementation of a split-type air conditioner for fault detection and diagnosis**

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XLI. **A Novel Reference Signal Generation Method for Power-Quality Improvement of Unified Power-Quality Conditioner**

TEKE A., SARIBULUT L., TÜMAY M.

IEEE TRANSACTIONS ON POWER DELIVERY, cilt.26, sa.4, ss.2205-2214, 2011 (SCI-Expanded)

XLII. **Implementation of fuzzy logic controller using FORTRAN language in PSCAD/EMTDC**

TEKE A., Meral M. E., SARIBULUT L., TÜMAY M.

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XLIII. **Experimental Architecture of a DSP Based Signal Generation for PWM Inverter**

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XLIV. **A comprehensive overview of hybrid electric vehicle: Powertrain configurations, powertrain control techniques and electronic control units**

BAYINDIR K. Ç., GOZUKUCUK M. A., TEKE A.

ENERGY CONVERSION AND MANAGEMENT, cilt.52, sa.2, ss.1305-1313, 2011 (SCI-Expanded)

XLV. **Dynamic control of unified power flow controller under unbalanced network conditions**

SARIBULUT L., TEKE A., TÜMAY M.

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XLVI. **Fast sag/swell detection method for fuzzy logic controlled dynamic voltage restorer**

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XLVII. **Power quality improvement with an extended custom power park**

MERAL M., TEKE A., BAYINDIR K. Ç., TÜMAY M.

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#### **Diğer Dergilerde Yayınlanan Makaleler**

I. **Development of a Low-Cost Monitoring and Warning System for a Data Processing Room**

TİMUR O., TEKE A.

Çukurova Üniversitesi Mühendislik Fakültesi dergisi, cilt.38, sa.2, ss.375-390, 2023 (Hakemli Dergi)

II. **Design and implementation of a microcontroller based split air conditioner control system**

TİMUR O., TEKE A.

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.64, sa.2, ss.117-128, 2022 (Hakemli Dergi)

III. **Application of Statistical and Artificial Intelligence Techniques for Medium-Term Electrical Energy Forecasting: A Case Study for a Regional Hospital**

Timur O., Zor K., Çelik Ö., Teke A., İbrikçi T.

JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS, cilt.8, sa.3, ss.520-536, 2020 (ESCI)

IV. **ENHANCEMENT OF A LOW-COST INTELLIGENT DEVICE FOR IMPROVING ENERGY EFFICIENCY IN**

## **BUILDINGS**

TİMUR O., ZOR K., ÇELİK Ö., TEKE A.

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.60, sa.2, ss.103-128, 2018 (Hakemli Dergi)

- V. **Yüksek Verimli Transformatörlerin Yatırım Geri Dönüş Sürelerininİncelenmesi**  
DOĞRUKAN H., SARIBULUT L., TEKE A.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, cilt.33, sa.1, ss.107-116, 2018 (Hakemli Dergi)
- VI. **Design of a Solar Tracking System by Using Arduino**  
TİMUR O., TEKE A.  
International Journal of Scientific and Technological Research, cilt.4, sa.5, ss.23-30, 2018 (Hakemli Dergi)
- VII. **Estimation of Electrical Characteristics and Maximum Power Point of Photovoltaic Panel**  
Yılmaz Ü., Türksoy Ö., İBRİKÇİ T., TEKE A.  
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- VIII. **Estimation of Electrical Characteristics and Maximum Power Point of Photovoltaic Panel**  
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- X. **A Comparison Study of Sinusoidal PWM and Space Vector PWM Techniques for Voltage Source Inverter**  
TÜRKSOY Ö., YILMAZ Ü., TAN A., TEKE A.  
Natural and Engineering Sciences, cilt.2, sa.2, ss.73-84, 2017 (Hakemli Dergi)
- XI. **Current Overview of Renewable Energy Resources in Rwanda**  
UWISENGEYIMANA J. D. D., TEKE A., İBRİKÇİ T.  
Journal of Energy and Natural Resources, cilt.5, sa.6, ss.92-97, 2017 (Hakemli Dergi)
- XII. **Survey of Photovoltaic PV Technologies PV Module Characteristics Connection Form and Standards**  
ÇELİK Ö., TEKE A., YILDIRIM H. B.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, cilt.30, sa.2, 2015 (Hakemli Dergi)
- XIII. **Calculating Payback Periods for Energy Efficiency Improvement Applications at a University Hospital**  
Teke A., Timur O., Zor K.  
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- XIV. **Calculating Payback Periods for Energy Efficiency Improvement Applications at University Hospital**  
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- XV. **Step by Step Design Procedure of a Distribution Static Synchronous Compensator DSTATCOM**  
TEKE A., YOLDAŞ Y., BARGHI LATRAN M.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, cilt.30, sa.1, ss.117-131, 2015 (Hakemli Dergi)
- XVI. **Overview of Energy Savings and Efficiency Strategies at the Hospitals**  
TEKE A., Timur O.  
World Academy of Science, Engineering and Technology International Journal of Social, Human Science and Engineering, cilt.8, sa.1, ss.257-263, 2014 (Hakemli Dergi)
- XVII. **Overview of Energy Savings and Efficiency Strategies at the Hospitals**  
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- XVIII. **Pistonlu Gaz Motorlarıyla Tahrik Edilen Kojenerasyon Sistemleri İle Yerinde Enerji Üretimi**  
ZOR K., TEKE A.  
3e Electrotech - Aylık Enerji, Elektrik, Elektronik Teknolojileri Dergisi, sa.234, ss.176-182, 2013 (Hakemsiz Dergi)
- XIX. **Electric Motors and Variable Speed Drives at the Hospitals: An Overview**  
TEKE A., TİMUR O.

- Majlesi Journal of Energy Management, cilt.2, sa.3, ss.5-16, 2013 (Hakemli Dergi)
- XX. **Electric Motors and Variable Speed Drives at the Hospitals An Overview**  
TEKE A., TİMUR O.  
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- XXI. **Lighting Systems at the Hospitals An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, cilt.2, sa.2, ss.39-51, 2013 (Hakemli Dergi)
- XXII. **Fundamentals and Literature Review of Wavelet Transform in Power Quality Issues**  
SARIBULUT L., TEKE A., BARGHI LATRAN M., TÜMAY M.  
Journal of Electrical and Electronics Engineering Research, cilt.5, sa.1, ss.1-8, 2013 (Hakemli Dergi)
- XXIII. **Lighting Systems at the Hospitals: An Overview**  
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Turkish Journal Of Electrical Engineering And Computer Sciences, Editörler Kurulu Üyesi, 2020 - Devam Ediyor

## Metrikler

Yayın: 139

Atıf (WoS): 962

Atıf (Scopus): 1184

H-İndeks (WoS): 14

H-İndeks (Scopus): 16

## Akademi Dışı Deneyim

MEB