

## Prof. AHMET TEKE

### Personal Information

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**Address:** Çukurova Üniversitesi Elektrik Elektronik Mühendisliği Bölümü Balcalı Sarıçam/Adana



### International Researcher IDs

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

Yoksis Researcher ID: 124463

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2006 - 2011

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2002 - 2005

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

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Renewable Energy Sources, Kurumsal Karbon Ayak İzi ve Yeşil Mutabakat Bilgilendirme Eğitimi, QSI, 2022

Quality Management, ISO 50001:2018 Baş Tetkikçi Eğitimi, BSI Eğitim Akademisi, 2020

Vocational Training, Sanayide Enerji Yöneticisi, EDSM Enerji, 2010

### Dissertations

Doctorate, UNIFIED POWER QUALITY CONDITIONER: DESIGN, SIMULATION AND EXPERIMENTAL ANALYSIS, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, 2011

Postgraduate, Modelling of Dynamic Voltage Restorer, Cukurova University, Mühendislik Mimarlık, Elektrik Elektronik Mühendisliği, 2005

### Research Areas

Electrical and Electronics Engineering, Energy, Lighting Technology, Generating Stations and Plants, Renewable energy, High Voltage Technique, Power Electronics, Electric Motor Drivers, Power Converters, Power Quality, Solar energy, Engineering and Technology

## Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Continues  
Associate Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2015 - 2020  
Assistant Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2011 - 2015  
Research Assistant, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2005 - 2011

## Courses

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

## Advising Theses

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

Teke A., A novel hybrid mppt method for grid connected photovoltaic systems with partial shading conditions, Postgraduate, Ö.ÇELİK(Student), 2015

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, Postgraduate, K.Zor(Student), 2015

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

TEKE A., Energy efficiency improvement and energy saving opportunities at Çukurova University BALCALI hospital, Postgraduate, O.İMUR(Student), 2013

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

- 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, vol.32, no.5, pp.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, vol.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, vol.8, pp.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, vol.239, pp.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, vol.30, no.6, pp.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, vol.221, pp.1-18, 2021 (SCI-Expanded)
- VII. **A comprehensive overview of the dc-dc converter-based battery charge balancing methods in electric vehicles**  
Turksoy A., TEKE A., ALKAYA A.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.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, vol.44, no.6, pp.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., İMUR O., TEKE A.  
ENERGIES, vol.13, no.5, 2020 (SCI-Expanded)

- 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, vol.113, pp.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.  
ENERGY, vol.186, 2019 (SCI-Expanded)
- 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, vol.34, no.4, pp.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.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.25, no.5, pp.11-17, 2019 (SCI-Expanded)
- 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, vol.173, pp.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, vol.82, pp.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, vol.82, pp.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, vol.82, pp.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, vol.152, pp.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, vol.77, pp.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, vol.116, pp.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, vol.31, no.3, pp.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, vol.50, pp.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, vol.71, pp.131-139, 2015 (SCI-Expanded)
- XXV. **Supplemental LED lighting increases pansy growth**  
KÖKSAL N., İNCESU M., TEKE A.  
HORTICULTURA BRASILEIRA, vol.33, no.4, pp.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, vol.7, no.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, vol.8, no.7, pp.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, vol.42, pp.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., TÜMAY M., BAYINDIR K. Ç.  
ELECTRICAL ENGINEERING, vol.96, no.4, pp.385-395, 2014 (SCI-Expanded)
- XXX. **Estimating the monthly global solar radiation for Eastern Mediterranean Region**  
TEKE A., YILDIRIM H. B.  
ENERGY CONVERSION AND MANAGEMENT, vol.87, pp.628-635, 2014 (SCI-Expanded)
- XXXI. **Artificial neural network-based discrete-fuzzy logic controlled active power filter**  
SARIBULUT L., TEKE A., TÜMAY M.  
IET POWER ELECTRONICS, vol.7, no.6, pp.1536-1546, 2014 (SCI-Expanded)
- 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, vol.33, pp.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, vol.14, no.2, pp.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, vol.29, no.4, pp.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., TÜMAY M.  
JOURNAL OF POWER ELECTRONICS, vol.13, no.2, pp.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., TÜMAY M., BAYINDIR K. Ç.  
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.7, no.3, pp.254-264, 2013 (SCI-Expanded)
- XXXVII. **A practical disturbance generator to test performances of various power quality mitigation devices**  
TEKE A., Meral M. E., TÜMAY M., CUMA M. U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, no.1, pp.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.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.20, no.3, pp.445-453, 2012 (SCI-Expanded)
- XXXIX. **Vector-based reference location estimating for space vector modulation technique**  
Saribulut L., TEKE A., TÜMAY M.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.86, pp.51-60, 2012 (SCI-Expanded)
- XL. **Experimental implementation of a split-type air conditioner for fault detection and diagnosis**  
BİLGİLİ M., TEKE A., YAŞAR A., ŞİMŞEK E.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.1, pp.401-410, 2011 (SCI-Expanded)
- XLII. **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, vol.26, no.4, pp.2205-2214, 2011 (SCI-Expanded)
- XLIII. **Implementation of fuzzy logic controller using FORTRAN language in PSCAD/EMTDC**  
TEKE A., Meral M. E., SARIBULUT L., TÜMAY M.  
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, vol.48, no.4, pp.372-390, 2011 (SCI-Expanded)
- XLIV. **Experimental Architecture of a DSP Based Signal Generation for PWM Inverter**  
CUMA M. U., TEKE A., TÜMAY M., BAYINDIR K. Ç., ÖZGÜR M. S.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.19, no.3, pp.561-571, 2011 (SCI-Expanded)
- XLV. **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, vol.52, no.2, pp.1305-1313, 2011 (SCI-Expanded)
- XLVI. **Dynamic control of unified power flow controller under unbalanced network conditions**  
SARIBULUT L., TEKE A., TÜMAY M.  
SIMULATION MODELLING PRACTICE AND THEORY, vol.19, no.2, pp.817-836, 2011 (SCI-Expanded)
- XLVII. **Fast sag/swell detection method for fuzzy logic controlled dynamic voltage restorer**  
TEKE A., BAYINDIR K. Ç., TÜMAY M.  
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.4, no.1, pp.1-12, 2010 (SCI-Expanded)
- XLVIII. **Power quality improvement with an extended custom power park**  
MERAL M., TEKE A., BAYINDIR K. Ç., TÜMAY M.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.79, no.11, pp.1553-1560, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Development of a Low-Cost Monitoring and Warning System for a Data Processing Room**  
TİMUR O., TEKE A.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.2, pp.375-390, 2023 (Peer-Reviewed Journal)
- 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, vol.64, no.2, pp.117-128, 2022 (Peer-Reviewed Journal)
- 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, vol.8, no.3, pp.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, vol.60, no.2, pp.103-128, 2018 (Peer-Reviewed Journal)
- V. **Yüksek Verimli Transformatörlerin Yatırım Geri Dönüş Sürelerinin İncelenmesi**  
DOĞRUKAN H., SARIBULUT L., TEKE A.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.33, no.1, pp.107-116, 2018 (Peer-Reviewed Journal)
- VI. **Design of a Solar Tracking System by Using Arduino**  
TİMUR O., TEKE A.  
International Journal of Scientific and Technological Research, vol.4, no.5, pp.23-30, 2018 (Peer-Reviewed Journal)
- VII. **Estimation of Electrical Characteristics and Maximum Power Point of Photovoltaic Panel**  
Yılmaz Ü., Türksoy Ö., İBRİKÇİ T., TEKE A.  
Jour. of Electrical Systems, vol.13, no.2, pp.255-265, 2017 (Scopus)
- VIII. **Estimation of Electrical Characteristics and Maximum Power Point of Photovoltaic Panel**  
YILMAZ Ü., Turksoy O., İBRİKÇİ T., TEKE A.  
JOURNAL OF ELECTRICAL SYSTEMS, vol.13, no.2, pp.255-265, 2017 (ESCI)
- IX. **Estimation of Electrical Characteristics and Maximum Power Point of Photovoltaic Panel**  
YILMAZ Ü., TÜRKSOY Ö., İBRİKÇİ T., TEKE A.  
Journal of Electrical Systems, vol.13, no.2, pp.255-265, 2017 (ESCI)
- 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, vol.2, no.2, pp.73-84, 2017 (Peer-Reviewed Journal)
- XI. **Current Overview of Renewable Energy Resources in Rwanda**  
UWISENGEYIMANA J. D. D., TEKE A., İBRİKÇİ T.  
Journal of Energy and Natural Resources, vol.5, no.6, pp.92-97, 2017 (Peer-Reviewed Journal)
- 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, vol.30, no.2, 2015 (Peer-Reviewed Journal)
- XIII. **Calculating Payback Periods for Energy Efficiency Improvement Applications at a University Hospital**  
Teke A., Timur O., Zor K.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.30, no.1, pp.41-56, 2015 (Peer-Reviewed Journal)
- XIV. **Calculating Payback Periods for Energy Efficiency Improvement Applications at University Hospital**  
TEKE A., TİMUR O., ZOR K.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.30, no.1, pp.41-56, 2015 (Peer-Reviewed Journal)
- 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, vol.30, no.1, pp.117-131, 2015 (Peer-Reviewed Journal)
- 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, vol.8, no.1, pp.257-263, 2014 (Peer-Reviewed Journal)
- XVII. **Overview of Energy Savings and Efficiency Strategies at the Hospitals**  
TEKE A., TİMUR O.  
World Academy of Science, Engineering and Technology International Journal of Economics and Management Engineering, vol.8, no.1, pp.242-248, 2014 (Peer-Reviewed Journal)

- XVIII. **Pistonlu Gaz Motorlarıyla Tahrik Edilen Kojenerasyon Sistemleri İle Yerinde Enerji Üretimi**  
ZOR K., TEKE A.  
3e Electrotech - Aylık Enerji, Elektrik, Elektronik Teknolojileri Dergisi, no.234, pp.176-182, 2013 (Non Peer-Reviewed Journal)
- XIX. **Electric Motors and Variable Speed Drives at the Hospitals: An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, vol.2, no.3, pp.5-16, 2013 (Peer-Reviewed Journal)
- XX. **Electric Motors and Variable Speed Drives at the Hospitals An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, vol.2, no.3, pp.5-16, 2013 (Peer-Reviewed Journal)
- XXI. **Lighting Systems at the Hospitals An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, vol.2, no.2, pp.39-51, 2013 (Peer-Reviewed Journal)
- 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, vol.5, no.1, pp.1-8, 2013 (Peer-Reviewed Journal)
- XXIII. **Lighting Systems at the Hospitals: An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, vol.2, no.2, pp.39-51, 2013 (Peer-Reviewed Journal)
- XXIV. **Fundamentals and Literature Review of Fourier Transform in Power Quality**  
SARIBULUT L., TEKE A., TÜMAY M.  
Journal of Electrical and Electronics Engineering Research, vol.5, no.1, pp.9-22, 2013 (Peer-Reviewed Journal)
- XXV. **Denetim Sinyalleri Üreten İşlemciler**  
TEKE A., ÖZBARUT A.  
EMO Bilimsel Dergi, vol.3, no.5, pp.1-6, 2013 (Peer-Reviewed Journal)
- XXVI. **LED Aydınlatma Sisteminin Domates Bitkisinin Gelişimi Üzerine Etkileri**  
KÖKSAL N., İNCESU M., TEKE A.  
Tarım Bilimleri Araştırma Dergisi, vol.6, no.2, pp.71-75, 2013 (Peer-Reviewed Journal)
- XXVII. **Performance Comparison of PWM Methods for 27 Level Hybrid Multilevel Inverters**  
MERAL M. E., SARIBULUT L., TEKE A., TÜMAY M.  
Gazi University Journal of Science, vol.25, no.3, pp.689-695, 2012 (Scopus)
- XXVIII. **Experimental Implementation of a Split Type Air Conditioner for Fault Detection Diagnosis**  
BİLGİLİ M., TEKE A., YAŞAR A., ŞİMŞEK E.  
Energy Education Science And Technology Part A-Energy Science And Research, vol.28, no.1, pp.401-410, 2011 (Peer-Reviewed Journal)
- XXIX. **Unified Power Quality Conditioner A Literature Survey**  
TEKE A., TÜMAY M.  
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- II. **Development of an Intelligent Energy Measurement Device for Buildings.**  
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- III. **Very Short-Term Internet of Things Based Forecasting of Air Conditioning Loads: A Case Study for a Server Room in a Hospital.**  
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- IV. **Optimal Design and Analysis of Single-Stage Flyback Pv Microinverter**  
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- VII. **DEVELOPMENT OF AN INTELLIGENT ENERGY MEASUREMENT DEVICE FOR BUILDINGS**

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II. International Conference on Theoretical and Applied Computer Science and Engineering, ICTACSE, İstanbul, Turkey, 29 - 30 June 2018

- VIII. **VERY SHORT-TERM INTERNET OF THINGS BASED FORECASTING OF AIR CONDITIONING LOADS: A CASE STUDY FOR A SERVER ROOM IN A HOSPITAL**  
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- XI. **Overview of Battery Charger Topologies in Plug-in Electric and Hybrid Electric Vehicles**  
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- XXXII. **Bölgesel toplam güneş radyasyonu tahminlerinde yapay sinir ağları ve destek vektör makineleri metotlarının kıyaslanması**

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**XLII. Evaluation and Performance Comparison of Global Solar Radiation Estimation Models Based on Angström Prescott Equation in Adana Turkey**

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**XLIII. Onsite Energy Production with Cogeneration Plants Driven by Reciprocating Gas Engines**

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**XLIV. Fotovoltaik Güç Destekli Absorbsiyonlu Soğutma Sistemi**

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- XLV. **A Novel Switching Signals Generation Method for Hybrid Multilevel Inverters**  
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- TEKE A., Hussein I. M., Project Supported by Higher Education Institutions, Mitigation of Interharmonics Generation and Control Structure Enhancement from Single-Phase Single-Stage Grid Connected Photovoltaic Systems, 2021 - 2024
- TEKE A., Macit R., ÇELİK Ö., Project Supported by Higher Education Institutions, Design of a Hybrid PV Fuel Cells System with Active Reactive Power Control Capabilities, 2022 - 2023
- TEKE A., TÜRKSOY A., ALKAYA A., Project Supported by Higher Education Institutions, Implementation of Active Cell Balancing Circuit for Battery Management System in Electric Vehicles, 2021 - 2023
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Tan A., Teke A., TUBITAK Project, Şebekeye Bağlı İki-Aşamalı Fotovoltaik Mikro-Eviriciler için Kontrolcü Tasarımı ve Deneysel Olarak Gerçeklenmesi, 2019 - 2020

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TEKE A., ZOR K., ÇELİK Ö., Project Supported by Higher Education Institutions, Electric Demand Prediction: Data Acquisition, Implementation of ANN and User Interface Design, 2017 - 2019

TEKE A., Yıldırım E., Project Supported by Higher Education Institutions, DEVELOPMENT OF A PLATFORM FOR MODELING DISTRIBUTED GENERATION SYSTEMS FOR PROTECTION ANALYSIS, 2014 - 2019

TEKE A., ZOR K., ÇELİK Ö., Project Supported by Higher Education Institutions, Very Short-Term Forecasting of a Household Electrical Energy Consumption, 2017 - 2018

KÖKSAL N., TEKE A., İNCESU M., Project Supported by Higher Education Institutions, Effects Of High Temperature Stress On Enzymatic And Nonenzymatic Antioxidants And Proteins In Strawberry Plants, 2017 - 2018

TEKE A., Timur O., Project Supported by Higher Education Institutions, Akıllı Binalarda Enerji İzleme, Analiz ve Yönetimi için Kablosuz Ağ Uygulaması (The Implementation of Wireless Network for Energy Monitoring, Analysis and Management in Smart Buildings), 2016 - 2018

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## Activities in Scientific Journals

Turkish Journal Of Electrical Engineering And Computer Sciences, Committee Member, 2020 - Continues

## Metrics

Publication: 139

Citation (WoS): 962

Citation (Scopus): 1184

H-Index (WoS): 14

H-Index (Scopus): 16

## **Non Academic Experience**

MEB