

Prof. Okan Özgönenel

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Sakarya University, Fen Bilimleri Enstitüsü, Elektrik, Elektronik Mühendisliği (Dr), Turkey 1995 - 2001

Postgraduate, Marmara University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1989 - 1992

Undergraduate, Marmara University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1985 - 1989

Dissertations

Doctorate, Enerji iletim sistemlerinde birim koruma sisteminin geliştirilmesi: Transformator koruma, Sakarya University, Fen Bilimleri Enstitüsü, Elektrik, Elektronik Mühendisliği (Dr), 2001

Postgraduate, Enerji iletim hatlarının modellenmesi ve mesleki eğitime katkısı, Marmara University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 1992

Research Areas

Energy, Power Electronics

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - Continues

Professor, The University of Nottingham, Engineering Faculty, Electrical And Electronic Engineering, 2018 - 2018

Professor, The University of Nottingham, Engineering Faculty, Electrical And Electronic Engineering, 2017 - 2017

Professor, The University of Nottingham, Engineering Faculty, Electrical And Electronic Engineering, 2015 - 2015

Professor, The University of Nottingham, Engineering Faculty, Electrical And Electronic Engineering, 2013 - 2013

Associate Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2008 - 2013

Associate Professor, The University of Nottingham, Engineering Faculty, Electrical And Electronic Engineering, 2010 - 2010

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2002 - 2008

Assistant Professor, The University of Nottingham, Engineering Faculty, Electrical And Electronic Engineering, 2004 - 2004

Lecturer, Amasya University, Elektrik Pr., 1991 - 2002

Academic and Administrative Experience

Head of Department, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2003 - Continues

Head of Department, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2015 - 2021

Vice Dean, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - 2016

Courses

Yüksek Gerilim Tekniği, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003

Enerji Sistemleri I, Undergraduate, 2018 - 2019

Enerji Sistemlerinde Haberleşme, Postgraduate, 2016 - 2017

SİMGESEL HESAPLAMA, Undergraduate, 2016 - 2017, 2015 - 2016

ELEKTRİK-ELEKTRONİK MÜH. İLETİM HATTI MODELİ UYG., Postgraduate, 2016 - 2017, 2015 - 2016

Doktora Proje I, Doctorate, 2015 - 2016

Enerji Sistemleri Korumada Sayısal Teknikler, Postgraduate, 2015 - 2016

ELECTRICAL MEASUREMENT TECHNOLOGY, Undergraduate, 2015 - 2016, 2012 - 2013

Ölçme Teknolojisi, Undergraduate, 2013 - 2014

Ölçme Teknolojisi Lab., Undergraduate, 2013 - 2014

Dağıtım sistemleri, Undergraduate, 2013 - 2014

Yüksek Gerilim Tekniği, Undergraduate, 2013 - 2014

Enerji Lab., Undergraduate, 2013 - 2014

Electrical Measurement Technology, Undergraduate, 2013 - 2014

Dağıtım sistemleri, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003

Ölçme Teknolojisi Lab., Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003

Enerji Lab., Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003

Ölçme Teknolojisi, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2004 - 2005, 2003 - 2004, 2002 - 2003

Advising Theses

Özgönenel O., Using machine learning in smart grid to predict load consumption: The use of time series analysis, Postgraduate, Ş.ALMUSTAFA(Student), 2023

Özgönenel O., R410A gazının transformatör yalıtım malzemesi olarak kullanılması, Doctorate, E.GÜNEY(Student), 2021

Özgönenel O., İletim hattı üzerinden haberleşme yöntemlerinin Karşılaştırılması, Postgraduate, B.UZUN(Student), 2021
Okan Ö., Mevcut ve yeni inşa edilecek dağıtım trafolarının konum ve güç değerlerinin kapsama alanı tabanlı eniyilemesi, Doctorate, O.AKAR(Student), 2020

Özgönenel O., DC hatlarda seri ark arızasının algılanması, Postgraduate, K.KAYA(Student), 2020

Özgönenel O., İstatistiksel yük akışı, Postgraduate, B.BOYLU(Student), 2019

Özgönenel O., Akıllı şebekelerde güç kalitesi bozukluklarının işaret işleme yöntemleriyle tanısı, Doctorate, T.YALÇIN(Student), 2019

Özgönel O., Samsun ilindeki rüzgar enerjisi potansiyelinin belirlenmesi ve farklı rüzgar türbinleri kullanılarak enerji analizlerinin araştırılması, Doctorate, M.SERDAR(Student), 2019

Özgönel O., Dağıtım sistemlerinde güç kalitesi sorunları üzerine melez bir yaklaşım, Postgraduate, K.NUR(Student), 2018

Özgönel O., Transformatör sargı sıcaklığı kestirimi için yeni bir yöntem, Doctorate, C.GEZEGİN(Student), 2018

Özgönel O., Akıllı şebekelerde kullanılan scada sistemlerinin yazılım ve donanımsal olarak uygulaması, Postgraduate, A.GÖZÜOĞLU(Student), 2018

Özgönel O., Radio frequency energy harvesting method to supply wireless sensors, Postgraduate, A.DIDI(Student), 2018

Özgönel O., Rüzgar hızı tahmin yöntemleri - örnek bir uygulama, Postgraduate, S.ŞENKAL(Student), 2014

Özgönel O., Temel bileşenler analizi yardımıyla gerçek zamanlı motor koruma algoritması, Postgraduate, T.YALÇIN(Student), 2010

Özgönel O., Alçak gerilimde enerji otomasyonu-Örnek bir uygulama, Postgraduate, A.İLKER(Student), 2010

Özgönel O., Wavelet (dalgacık) tabanlı senkron generatör koruma algoritması, Postgraduate, E.ARISOY(Student), 2004

Özgönel O., Dalgacık tabanlı transformatör koruma algoritması, Postgraduate, Ç.KOCAMAN(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The effect of conducted emissions of Grid-Tied three-Phase adjustable drives**
Genç S., Muneeswaran V., Thomas D., Greedy S., Gundogdu B., Sarma N., Özgönel O.
Engineering Science and Technology, an International Journal, vol.46, 2023 (SCI-Expanded)
- II. **Short term load forecasting based on ARIMA and ANN approaches**
Tarmanini C., Sarma N., GEZEGİN C., Özgönel O.
ENERGY REPORTS, vol.9, pp.550-557, 2023 (SCI-Expanded)
- III. **An intelligent power management controller for grid-connected battery energy storage systems for frequency response service: A battery cycle life approach**
Akpınar K. N., Gundogdu B., Özgönel O., GEZEGİN C.
ELECTRIC POWER SYSTEMS RESEARCH, vol.216, 2023 (SCI-Expanded)
- IV. **Early life failure modes and downtime analysis of onshore type-III wind turbines in Turkey**
Sarma N., Tuohy P. M., Özgönel O., Djurovic S.
ELECTRIC POWER SYSTEMS RESEARCH, vol.216, 2023 (SCI-Expanded)
- V. **A novel cycle counting perspective for energy management of grid integrated battery energy storage systems**
Akpınar K. N., Gundogdu B., Özgönel O.
ENERGY REPORTS, vol.9, pp.123-131, 2023 (SCI-Expanded)
- VI. **A hybrid approach to classify power quality problems in distribution systems**
Özgönel O., Akpınar K. N.
JOURNAL OF ENGINEERING RESEARCH, vol.10, no.4A, pp.219-233, 2022 (SCI-Expanded)
- VII. **Location of transformers during the extension of an electricity distribution network***
AKAR O., TERZİ Ü. K., Özgönel O.
ELECTRIC POWER SYSTEMS RESEARCH, vol.211, 2022 (SCI-Expanded)
- VIII. **Probabilistic Power Flow Analysis Using Matlab Graphical User Interface (GUI)**
KURT Ü., Özgönel O., Ayvaz B. B.
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.17, no.2, pp.929-943, 2022 (SCI-Expanded)
- IX. **A novel crimping technique approach for high power white good plugs**
Kivanç Ö. C., Özgönel O., Bostan Ö., Güzel Ş., Demirsoy M.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.30, no.4, pp.1525-1538, 2022 (SCI-Expanded)
- X. **Radio Frequency Energy Harvesting for Low Power Sensors**
Özgönel O., Üstün Ercan S.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.28, no.6, pp.1952-1959, 2021 (SCI-Expanded)

- XI. **A Monitoring Method for Average Winding and Hot-Spot Temperatures of Single-Phase, Oil-Immersed Transformers**
GEZEGİN C., Özgönenel O., DİRİK H.
IEEE TRANSACTIONS ON POWER DELIVERY, vol.36, no.5, pp.3196-3203, 2021 (SCI-Expanded)
- XII. **An Efficient Methodology Based on Coverage Area to Modify Location and Power Ratings of Distribution Transformers**
Akar O., TERZİ Ü. K., Özgönenel O., Petrichenko L., Sonmezocak T.
IEEE TRANSACTIONS ON POWER DELIVERY, vol.36, no.5, pp.2705-2714, 2021 (SCI-Expanded)
- XIII. **An Eco-Friendly Gas Insulated Transformer Design**
Guney E., Özgönenel O.
ENERGIES, vol.14, no.12, 2021 (SCI-Expanded)
- XIV. **Probabilistic Load Flow of Unbalanced Distribution Systems with Wind Farm**
Oke O., Özgönenel O., Thomas D. W. P., Ataseven M. S.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.26, no.5, pp.1260-1266, 2019 (SCI-Expanded)
- XV. **PCA-ANN Based Algorithm for the Determination of Asymmetrical Network Failures of Network-Connected Induction Generators**
BAYAR H., TERZİ Ü. K., Özgönenel O.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.26, no.4, pp.953-959, 2019 (SCI-Expanded)
- XVI. **The use of response surface methodology for modelling of lead (II) removal from industrial waste by pumice and vermiculite**
TEMEL F. A., Turan N. G., Özgönenel O., Ardalı Y.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.15, no.2, pp.175-189, 2018 (SCI-Expanded)
- XVII. **SF6 gas-insulated 50-kVA distribution transformer design**
Özgönenel O., Thomas D., Kurt U.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.4, pp.2140-2150, 2018 (SCI-Expanded)
- XVIII. **Heavy metal removal with pure and biochar rice husks: modelling and optimisation using Box-Behnken design**
TEMEL F. A., Turan N. G., Özgönenel O., Ardalı Y.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.16, no.1, pp.1-17, 2018 (SCI-Expanded)
- XIX. **A novel generation and capacitor integration technique for today's distribution systems**
Özgönenel O., Karagöl S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.3, pp.2434-2443, 2017 (SCI-Expanded)
- XX. **Modeling and simulation of 2.5 MVA SF6-gas insulated transformer**
Özgönenel O., Thomas D.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.4, pp.3475-3485, 2017 (SCI-Expanded)
- XXI. **A modeling study by artificial neural network on ethidium bromide adsorption optimization using natural pumice and iron-coated pumice**
Heibati B., Rodriguez-Couto S., Özgönenel O., Turan N. G., Aluigi A., Zazouli M. A., Ghosikali M. G., Mohammadyan M., Albadarin A. B.
DESALINATION AND WATER TREATMENT, vol.57, no.29, pp.13472-13483, 2016 (SCI-Expanded)
- XXII. **Removal of noxious dye-Acid Orange 7 from aqueous solution using natural pumice and Fe-coated pumice stone**
Heibati B., Rodriguez-Couto S., Turan N. G., Özgönenel O., Albadarin A. B., Asif M., Tyagi I., Agarwal S., Gupta V. K.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.31, pp.124-131, 2015 (SCI-Expanded)
- XXIII. **Transformer differential protection using wavelet transform**
Özgönenel O., Karagöl S.
ELECTRIC POWER SYSTEMS RESEARCH, vol.114, pp.60-67, 2014 (SCI-Expanded)
- XXIV. **Power transformer protection based on decision tree approach**

- Özgönenel O., Karagöl S.
IET ELECTRIC POWER APPLICATIONS, vol.8, no.7, pp.251-256, 2014 (SCI-Expanded)
- XXV. **A Novel Selection Algorithm of a Wavelet-Based Transformer Differential Current Features**
Ghunem R. A., El-Shatshat R., Özgönenel O.
IEEE TRANSACTIONS ON POWER DELIVERY, vol.29, no.3, pp.1120-1126, 2014 (SCI-Expanded)
- XXVI. **OPTIMIZATION OF PROCESS PARAMETERS FOR COMPOSTING OF PULP/PAPER MILL SLUDGE WITH HAZELNUT KERNEL USING A STATISTICAL METHOD**
Aycan N., Turan N. G., Özgönenel O.
ENVIRONMENT PROTECTION ENGINEERING, vol.40, no.1, pp.127-138, 2014 (SCI-Expanded)
- XXVII. **Study of Montmorillonite Clay for the Removal of Copper (II) by Adsorption: Full Factorial Design Approach and Cascade Forward Neural Network**
Turan N. G., Özgönenel O.
SCIENTIFIC WORLD JOURNAL, vol.2013, 2013 (SCI-Expanded)
- XXVIII. **Optimizing copper ions removal from industrial leachate by explored vermiculite-A comparative analysis**
Turan N. G., Özgönenel O.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.44, no.6, pp.895-903, 2013 (SCI-Expanded)
- XXIX. **Correction of saturated current from measurement current transformer**
Ozgonenel O.
IET ELECTRIC POWER APPLICATIONS, vol.7, no.7, pp.580-585, 2013 (SCI-Expanded)
- XXX. **Prediction of Heavy Metal Removal by Different Liner Materials from Landfill Leachate: Modeling of Experimental Results Using Artificial Intelligence Technique**
Turan N. G., Gumusel E. B., Özgönenel O.
SCIENTIFIC WORLD JOURNAL, vol.2013, 2013 (SCI-Expanded)
- XXXI. **The Design and Implementation of Adsorptive Removal of Cu(II) from Leachate Using ANFIS**
Turan N. G., Özgönenel O.
SCIENTIFIC WORLD JOURNAL, vol.2013, 2013 (SCI-Expanded)
- XXXII. **Response Surface Modeling of Cu(II) Removal from Electroplating Waste by Adsorption: Application of BoxBehnken Experimental Design**
Turan N. G., Mesci Oktay B., Özgönenel O.
CLEAN-SOIL AIR WATER, vol.41, no.3, pp.304-312, 2013 (SCI-Expanded)
- XXXIII. **A new classification for power quality events in distribution systems**
Özgönenel O., Yalcin T., GÜNEY K. R. İ., KURT Ü.
ELECTRIC POWER SYSTEMS RESEARCH, vol.95, pp.192-199, 2013 (SCI-Expanded)
- XXXIV. **Investigation of the Possibility of Copper Removal from Industrial Leachate by Raw and Calcined Phosphogypsum: D-Optimal and Taguchi Designs**
Mesci Oktay B., Turan N. G., Özgönenel O.
CLEAN-SOIL AIR WATER, vol.40, no.8, pp.850-855, 2012 (SCI-Expanded)
- XXXV. **A novel three-phase transformer hysteresis model in MATLAB (TM) Simulink**
Özgönenel O., GÜNEY K. R. İ., Usta Ö., Dirik H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.4, pp.479-492, 2012 (SCI-Expanded)
- XXXVI. **Short-term wind speed estimation based on weather data**
Özgönenel O., Thomas D. W. P.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.3, pp.335-346, 2012 (SCI-Expanded)
- XXXVII. **A hybrid approach for power quality monitoring**
Özgönenel O., TERZİ Ü. K., Khan A.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.6, pp.854-869, 2012 (SCI-Expanded)
- XXXVIII. **Defining Design Criteria of an Axial Flux Permanent Magnet Synchronous Generator**

- KURT Ü., Onbilgin G., Özgönenel O.
INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE, vol.7, no.1, pp.3290-3296, 2012 (SCI-Expanded)
- XXXIX. **Use of Artificial Neural Network in Differentiation of Subgroups of Temporomandibular Internal Derangements: A Preliminary Study**
Baş Akkor B., Özgönenel O., Ozden B., Bekcioglu B., Bulut E., Kurt M.
JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol.70, no.1, pp.51-59, 2012 (SCI-Expanded)
- XL. **Artificial neural network (ANN) approach for modeling Zn(II) adsorption from leachate using a new biosorbent**
Turan N. G., Mesci Oktay B., Özgönenel O.
CHEMICAL ENGINEERING JOURNAL, vol.173, no.1, pp.98-105, 2011 (SCI-Expanded)
- XLI. **The use of artificial neural networks (ANN) for modeling of adsorption of Cu(II) from industrial leachate by pumice**
Turan N. G., Mesci Oktay B., Özgönenel O.
CHEMICAL ENGINEERING JOURNAL, vol.171, no.3, pp.1091-1097, 2011 (SCI-Expanded)
- XLII. **A complete motor protection algorithm based on PCA and ann: A real time study**
Özgönenel O., Yalcin T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.19, no.3, pp.317-334, 2011 (SCI-Expanded)
- XLIII. **Wingate anaerobic testing with a modified electromagnetically braked elliptical trainer. Part I: Methodological considerations**
Ozkaya O., Colakoglu M., Özgönenel O., Fowler D., Colakoglu S., Tekat A.
ISOKINETICS AND EXERCISE SCIENCE, vol.17, no.2, pp.107-113, 2009 (SCI-Expanded)
- XLIV. **PCA based protection algorithm for transformer internal faults**
Kılıç E., Özgönenel O., Usta Ö., Thomas D.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.17, no.2, pp.125-142, 2009 (SCI-Expanded)
- XLV. **Modeling and real-time fault identification in transformers**
Özgönenel O., Kılıç E.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.345, no.3, pp.205-225, 2008 (SCI-Expanded)
- XLVI. **TLM modeling of transformer with internal short circuit faults**
Ozgonenel O., Thomas D. W. P., Christopoulos C.
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol.26, no.5, pp.1304-1323, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **An Efficient Rule-Based Control Algorithm for Frequency Response Ancillary Service with BESS for UK and Turkish Grid Scenarios**
Akpınar K. N., Gundogdu B., Özgönenel O.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.12, no.4, pp.2131-2141, 2022 (ESCI)
- II. **POWER QUALITY ANALYSIS FOR POWER LED DRIVES**
GENÇ S., ÖZGÖNENEL O., Onat YİLDİZ O., KILIÇASLAN İ. H.
European Journal of Technique, 2022 (Peer-Reviewed Journal)
- III. **Fuzzy Logic Based Smart Home Automation and Forecasting Electric Energy Consumption**
GÖZÜOĞLU A., ÖZGÖNENEL O.
Balkan Journal of Electrical and Computer Engineering, vol.9, no.4, pp.365-370, 2021 (Peer-Reviewed Journal)
- IV. **Development of an artificial intelligence system to estimate postoperative discomfort after impacted third molar surgery**
koçyiğit s., ÖZGÖNENEL O., BAŞ AKKOR B., ÖZDEN B., HOŞGÖR H., AKBELEN Ö.

Selcuk Dental Journal, vol.7, no.2, pp.148-154, 2020 (Peer-Reviewed Journal)

- V. **Islanding Detection in Photo-Voltaic Systems Based on Instantaneous Power Measurements**
Özgönenel O., Karagöl S.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.7, no.4, pp.1723-1730, 2017 (ESCI)
- VI. **Modeling of power electronic circuits using wavelet theory**
Onbilgin G., Özgönenel O., Turkmenoglu V.
Sampling Theory in Signal and Image Processing, vol.6, no.3, pp.307-322, 2007 (Scopus)
- VII. **Modeling of Power Electronics Circuits Using Wavelet Theory**
ÖNBİLGİN G., ÖZGÖNENEL O., TÜRKMENOĞLU V.
Sampling Theory in Signal and Image Processing, vol.6, no.3, pp.307-322, 2007 (Peer-Reviewed Journal)
- VIII. **Simulation of transformer internal faults Transformatörlerde iç arıza akımlarının benzeşimi**
Özgönenel O.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.21, no.1, pp.107-114, 2006 (Scopus)
- IX. **Transformer protection using the wavelet transform**
Özgönenel O., Önbilgin G., Kocaman Ç.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.13, no.1, pp.119-135, 2005 (Scopus)
- X. **Simulation of power transformers using state variables**
Özgönenel O., Onbilgin G.
IEEE Power Engineering Review, vol.22, no.10, pp.48-50, 2002 (Scopus)

Books & Book Chapters

- I. **POWER LINE COMMUNICATIONS FOR SMART GRID TECHNOLOGIES: A LITERATURE SURVEY**
ÜSTÜN ERCAN S., GÜNEY E., ÖZGÖNENEL O.
in: Advances in Engineering Sciences, Prof. Gül den Başyığıt Kılıç, Editor, Platanus Publishing, Ankara, pp.8-37, 2023
- II. **13. Peaking Power Sources and Energy Storages, 19. Power Train Optimization, 20. A User Guide for the Multiobjective Optimization Toolbox**
ÖZGÖNENEL O.
in: Modern Elektrikli, Hibrit Elektrikli ve Yakıt Hücreli Taşıtlar (Modern Electric, Hybrid Electric, and Fuel Cell Vehicles), AKTAŞ, MUSTAFA, Editor, Akademisyen Kitabevi, Ankara, pp.343-374, 2021
- III. **Modern Taşımacılığın Çevreye Etkisi ve Tarihi**
AKTAŞ M., ÖZGÖNENEL O., ALTIN N., SOLMAZ H., BAKAN A. F., ŞAHİN F., ÇINAR C., ŞEN O. T., DÜZGÜN M., TOPGÜL T., et al.
in: Modern Elektrikli, Hibrit Elektrikli ve Yakıt Hücreli Taşıtlar, Mustafa AKTAŞ, Editor, Akademisyen Kitabevi, Ankara, pp.1-16, 2021
- IV. **Elektriğin İlkeleri IV**
ÖZGÖNENEL O.
Longman Scientific Technical, 1995

Refereed Congress / Symposium Publications in Proceedings

- I. **Geleceğin Akıllı Şebekelerinde Talep Tarafı için Enerji Yönetim Sistemi Tasarım ve Uygulaması**
GÖZÜOĞLU A., ÖZGÖNENEL O., GEZEGİN C.
ELECO 2022, Bursa, Turkey, 24 - 26 November 2022
- II. **Tek Faz- Toprak Kısa Devre Arızası Durumunda Stabilize Edici Sargının Dağıtım Transformatörü Üzerindeki Etkisi**
NAJAFI A., ÖZGÖNENEL O., GEZEGİN C.
ELECO 2022, Bursa, Turkey, 24 - 26 November 2022
- III. **Optimum Battery State of Charge Control for Frequency Response Service**

- Akpınar K. N., Gundogdu B., Özgönenel O.
10th International Conference on Smart Grid, icSmartGrid 2022, İstanbul, Turkey, 27 - 29 June 2022, pp.255-260
- IV. **Conducted Emissions Analysis of DC-DC Buck Converter**
Genç S., Gundogdu B. M., Özgönenel O.
4th IEEE Global Power, Energy and Communication Conference (IEEE GPECOM), Cappadocia, Turkey, 14 - 17 June 2022, pp.135-138
- V. **The assessment of long-term import-export capabilities of Baltic power system**
Petrichenko R., Petrichenko L., Özgönenel O., Komarovs R.
IEEE 62nd International Scientific Conference of the Power-and-Electrical-Engineering of Riga-Technical-University (RTUCON), Riga, Latvia, 15 - 17 November 2021
- VI. **Comparison Of Power Line Communication Infrastructures**
Uzun B., ÖZGÖNENEL O.
6th International Conference on Engineering and Natural Sciences (ICENS 2020), Belgrade, Serbia, 21 - 25 October 2020
- VII. **R410A Gas Insulated Distribution Transformer Design**
GÜNEY E., ÖZGÖNENEL O.
COMSOL CONFERENCE, Grenoble, France, 14 - 16 October 2020
- VIII. **A New Three Phase Triangle Core Measurement Type Voltage Transformer**
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Memberships / Tasks in Scientific Organizations

IEEE, Member, 2004 - Continues, United States Of America