

## Assoc. Prof. Oktay ARIKAN

### Personal Information

**Office Phone:** [+90 212 383 5823](tel:+902123835823)

**Email:** [oarikan@yildiz.edu.tr](mailto:oarikan@yildiz.edu.tr)

**Web:** <https://avesis.yildiz.edu.tr/oarikan>

### International Researcher IDs

ScholarID: taaZQ00AAAAJ

ORCID: 0000-0002-3304-3766

Publons / Web Of Science ResearcherID: AAZ-9133-2020

ScopusID: 25653785400

Yoksis Researcher ID: 173885

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği, Turkey  
2003 - 2009

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2001 - 2003

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey  
1997 - 2001

### Research Areas

Electrical and Electronics Engineering, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2021 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2018 - 2021

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2009 - 2018

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2001 - 2009

### Academic and Administrative Experience

Fakülte Kurulu Üyesi, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2013 - 2016

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering  
Department, 2011 - 2014

## Advising Theses

- Arıkan O., Kentsel raylı ulaşım sistemleri için akıllı enerji yönetim algoritması geliştirilmesi, Doctorate, A.YILDIZ(Student), 2023
- Arıkan O., YÜKSEK GERİLİM ENERJİ İLETİM SİSTEMLERİNDE KULLANILAN HAVAİ HAT İLETKENLERİNİN PERFORMANS ANALİZLERİ, Postgraduate, M.DİNÇ(Student), 2022
- Arıkan O., Güç Sistemlerinde Arıza Akımı Sınırlayıcıların Etkilerinin Analizi, Doctorate, B.Küçükaydın(Student), 2021
- Arıkan O., Katı Yalıtkan Malzemelerin Farklı Çalışma Koşulları Altında Performans Analizi, Postgraduate, F.AKIN(Student), 2021
- Arıkan O., Alternatif ve darbe yüksek gerilimleri ile yaşlandırılmış orta gerilim yeraltı kablolarının performans analizi, Doctorate, C.ÇAĞDAŞ(Student), 2021
- Arıkan O., Elektrik Dağıtım Sistemlerinde Ark Arızalarının Tespiti, Analizi ve Azaltılması, Postgraduate, S.BAYKUL(Student), 2019
- Arıkan O., Raylı ulaşım sistemlerinde elektriksel enerji verimliliğinin artırılması, Postgraduate, A.YILDIZ(Student), 2018
- ARIKAN O., FARKLI ARIZA DURUMLARI DIKKATE ALINARAK ENERJİ İLETİM SİSTEMİ İÇİN EN UYGUN RÖLE AYAR DEGERLERİNİN BELİRLENMESİ, Postgraduate, H.Aydın(Student), 2017
- ARIKAN O., Enerji İletim Hatlarındaki Yapısal Degisikliklerin Röle Koordinasyonu Üzerindeki Etkileri, Postgraduate, Ö.Gürsanlı(Student), 2017
- ARIKAN O., Elektrik Enerjisi İletim Hatlarında Arıza Akımlarının Sınırlandırılması, Postgraduate, N.Akay(Student), 2016
- ARIKAN O., Yüksek Gerilim Yer Altı Kablolarının Isıl Analizi, Postgraduate, B.Küçükaydın(Student), 2015

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

- I. **Experimental analysis of a multi-phase resonance-based fault current limiter prototype under symmetrical and asymmetrical faults**  
Kucukaydin B., ARIKAN O., Isen E.  
Electric Power Systems Research, vol.233, 2024 (SCI-Expanded)
- II. **Economic operation of a micro grid structured university campus via optimal diesel generator operation under different strategies: a case study**  
İşcan S., ARIKAN O.  
Electrical Engineering, vol.106, no.4, pp.4859-4880, 2024 (SCI-Expanded)
- III. **Energy-Efficient Train Operation Optimization in Istanbul Metro Network Considering Variable Passenger Numbers**  
Yildiz A., ARIKAN O., KESKİN K.  
Transportation Research Record, vol.2678, no.7, pp.224-244, 2024 (SCI-Expanded)
- IV. **Multi-physics modelling and performance analysis of an air-core reactor in the framework of solid-state fault current limiters**  
AKIN F., ARIKAN O., Kucukaydin B.  
Electric Power Systems Research, vol.231, 2024 (SCI-Expanded)
- V. **A Timetable Optimization Model for the Istanbul, Turkey, Metro Network Considering a Novel Regenerative Braking Energy Model**  
Yildiz A., ARIKAN O., Cakiroglu H.  
Journal of Transportation Engineering Part A: Systems, vol.150, no.2, 2024 (SCI-Expanded)
- VI. **The effect of electric vehicle charging demand variability on optimal hybrid power systems with second-life lithium-ion or fresh Na-S batteries considering power quality**  
Terkes M., Arıkan O., Gokalp E.  
Energy, vol.288, 2024 (SCI-Expanded)
- VII. **Breakdown strength analysis of XLPE insulation types: A comparative study for multi-layer structure and voltage rise rate**  
Camalov M., Orucov A., Hashimov A., Arıkan O., Akın F.  
Electric Power Systems Research, vol.223, 2023 (SCI-Expanded)
- VIII. **Insulation evaluation of MV underground cable with partial discharge and dielectric dissipation**

## **factor measurements**

ARIKAN O., UYDUR C. C., KUMRU C. F.

Electric Power Systems Research, vol.220, 2023 (SCI-Expanded)

- IX. **The effect of thermal aging on solid insulating materials: A case study for dielectric loss and dissipation factor based evaluations under different voltage levels and frequencies**  
Akin F., Arıkan O.  
Engineering Failure Analysis, vol.148, 2023 (SCI-Expanded)
- X. **Traction energy optimization considering comfort parameter: A case study in Istanbul metro line**  
Yildiz A., Arıkan O., Keskin K.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.218, 2023 (SCI-Expanded)
- XI. **Dielectric performance analysis of laboratory aged power cable under harmonic voltages**  
Uydur C. Ç., Arıkan O.  
ELECTRICAL ENGINEERING, vol.104, no.6, pp.4197-4212, 2022 (SCI-Expanded)
- XII. **Analysis of breakdown mechanism based on contact area and field enhancement factor of different electrode-material combinations**  
Akin F., Arıkan O.  
International Journal of Energy Research, vol.46, no.9, pp.12674-12686, 2022 (SCI-Expanded)
- XIII. **Prediction of dielectric parameters of an aged mv cable: A comparison of curve fitting, decision tree and artificial neural network methods**  
Arıkan O., Uydur C. C., Kumru C. F.  
Electric Power Systems Research, vol.208, 2022 (SCI-Expanded)
- XIV. **A Comparative Study on Applicability of Parallel Resonance Type Fault Current Limiters in Power Systems**  
Kucukaydin B., Arıkan O.  
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.29, no.3, pp.993-1001, 2022 (SCI-Expanded)
- XV. **The Effect of Insulation Defects on Electric and Magnetic Field Distributions in Power Cables**  
Uydur C. C., Arıkan O., Kalenderli Ö.  
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.28, no.4, pp.1152-1160, 2021 (SCI-Expanded)
- XVI. **Use of Tan delta and Partial Discharge for Evaluating the Cable Termination Assembly**  
Uydur C. C., Arıkan O.  
ENERGIES, vol.13, no.20, 2020 (SCI-Expanded)
- XVII. **A new approach to limit fault current with series-parallel resonance strategy**  
ARIKAN O., Kucukaydin B.  
ELECTRICAL ENGINEERING, vol.102, no.3, pp.1287-1296, 2020 (SCI-Expanded)
- XVIII. **A New Approach for Grid-Connected Hybrid Renewable Energy System Sizing Considering Harmonic Contents of Smart Home Appliances**  
Erenoğlu A. K., Çiçek A., Arıkan O., Erdiñç O., Catalao J. P. S.  
APPLIED SCIENCES-BASEL, vol.9, no.18, 2019 (SCI-Expanded)
- XIX. **Analyses of the insulating characteristics of mineral oil at operating conditions**  
Taslak E., ARIKAN O., Kumru C. F., Kalenderli Ö.  
ELECTRICAL ENGINEERING, vol.100, no.1, pp.321-331, 2018 (SCI-Expanded)
- XX. **Survey of power quality in Turkish national transmission network**  
Kocatepe C., Kekezoğlu B., Bozkurt A., Yumurtacı R., İnan A., Arıkan O., Baysal M., Akkaya Y.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, pp.1880-1892, 2013 (SCI-Expanded)
- XXI. **Assessment of power quality terms on energy distribution systems: a case study of Istanbul**  
KEKEZOĞLU B., BOZKURT A., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M.  
PRZEGLAD ELEKTROTECHNICZNY, vol.88, 2012 (SCI-Expanded)
- XXII. **Power quality assessment of grid-connected wind farms considering regulations in turkey**  
Kocatepe C., Inan A., Arıkan O., Yumurtacı R., Kekezoğlu B., Baysal M., Bozkurt A., Akkaya Y.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.13, no.9, pp.2553-2561, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Optimizing Distribution Network Reconfiguration for Power Loss and Fault Current Management**  
Akin F., Çıkan M., Arıkan O., Kekezoğlu B.  
Mühendislik bilimleri ve araştırmaları dergisi (Online), vol.6, no.2, pp.188-197, 2024 (Peer-Reviewed Journal)
- II. **The Degradation Analysis of XLPE Materials Under Thermal Aging: A Comprehensive Study Through Partial Discharge Measurements and Structural Characterization Techniques**  
Camalov M., AKIN F., Hashimov A., ARIKAN O., Orucov A., Guliyev M.  
Transactions on Electrical and Electronic Materials, vol.25, no.4, pp.494-506, 2024 (ESCI)
- III. **A single-phase solid-state fault current limiter: Simulation and experimental study**  
Küçükaydın B., Arıkan O., İşen E.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.1, pp.164-176, 2024 (ESCI)
- IV. **Analysis of Solid Insulating Materials Breakdown Voltages Under Different Voltage Types**  
AKIN F., ARIKAN O., UYDUR C. Ç.  
Turkish Journal of Electrical Power and Energy Systems, vol.2, 2022 (Peer-Reviewed Journal)
- V. **Energy Management Planning According to the Electricity Tariff Models in Turkey: A Case Study**  
İŞÇAN S., ARIKAN O.  
Turkish Journal of Electrical Power and Energy Systems, vol.2, 2022 (Peer-Reviewed Journal)
- VI. **Characteristics of Power Consumption and Harmonic Components of Electrical Appliances Used in Residences with K-Means Clustering Method**  
Yıldız M. Ş., Arıkan O., Erenoğlu A. K., Kekezoğlu B.  
Firat Üniversitesi Mühendislik Bilimleri Dergisi, vol.33, no.1, pp.1-9, 2021 (Peer-Reviewed Journal)
- VII. **Investigation of line displacement in terms of electrical field distribution and safe right of way distance in energy transmission systems**  
Kumru C. F., Arıkan O.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISİ, vol.26, no.2, pp.279-285, 2020 (ESCI)
- VIII. **Investigation of the Effect of Arc Flash Fault Reduction Methods: Sample Application for Industrial Plant**  
Arıkan O., Baykul S.  
Avrupa Bilim ve Teknoloji Dergisi, no.17, pp.589-605, 2019 (Peer-Reviewed Journal)
- IX. **Technical And Ecnomical Efficiency Analysis For DC Electric Railway Systems**  
Yıldız A., Arıkan O.  
Avrupa Bilim ve Teknoloji Dergisi, pp.729-739, 2019 (Peer-Reviewed Journal)
- X. **Arc Flash Faults Calculations, Hazard Analysis and Reduction Methods**  
Baykul S., Arıkan O.  
International Journal of Advances in Computer and Electronics Engineering (IJACEE), vol.4, no.3, pp.1-9, 2019 (Peer-Reviewed Journal)
- XI. **Performance analysis of stand-alone hybrid (wind-photovoltaic) energy system**  
Arıkan O., İşen E., Kekezoğlu B.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISİ, vol.25, no.5, pp.571-576, 2019 (ESCI)
- XII. **An Algorithm for Transmission Distance Relay Setting Calculation Under Network Topology Change**  
Arıkan O., Gürsanlı Ö., Aydın H., Yağmur E. A.  
International Journal Of Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering (IJIREEICE), vol.4, no.5, pp.508-513, 2016 (Peer-Reviewed Journal)
- XIII. **Effects of Power Quality Terms on Passive Power Filters**  
ARIKAN O., KEKEZOĞLU B., KUMRU C. F.  
European Journal of Engineering and Technology, vol.4, pp.25-38, 2016 (Peer-Reviewed Journal)
- XIV. **Wind energy potential of Marmara region in Turkey**  
İşen E., Arıkan O., Kocaman Ç., Kekezoğlu B.

International Journal Of Energy And Environment, vol.6, no.1, pp.17-26, 2015 (Non Peer-Reviewed Journal)

XV. **Comparison of Charge Controllers on PV Panel Performance: An Experimental Study**

Arıkan O., Kekezoğlu B., Durusu A., İşen E., Erduman A., Bozkurt A.

International Journal of Advancements in Electronics and Electrical Engineering – IJAEEEE, vol.3, pp.121-125, 2014  
(Peer-Reviewed Journal)

XVI. **Elektrikli Ofis Cihazlarında Güç Faktörü ve cos $\phi$  nin İncelenmesi**

KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.174, 2008 (Non Peer-Reviewed Journal)

XVII. **Elektrikli Ofis Donanımlarının Harmonik Etkilerinin İncelenmesi**

KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.168, 2008 (Non Peer-Reviewed Journal)

XVIII. **Elektrikli Ofis Cihazlarında Güç Faktörü ve Cos( $\phi$ ) nin İncelenmesi**

KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.174, pp.110-114, 2008 (Non Peer-Reviewed Journal)

XIX. **Investigation Of Power Definitions And Power Factor Under Non-Sinusoidal Conditions**

Kocatepe C., Köroğlu S., Arıkan O.

Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.23, no.2, pp.117-126, 2005 (ESCI)

## Books & Book Chapters

I. **Harmonic Effects of Power System Loads: An Experimental Study**

KOCATEPE C., YUMURTACI R., ARIKAN O., BAYSAL M., KEKEZOĞLU B., BOZKURT A., KUMRU C. F.  
in: Power Quality Issues, Zobia A., Editor, Intech, Rijeka, pp.175-200, 2013

II. **High Voltage Technique with Solved Problems Vol. 1**

Kalenderli Ö., Kocatepe C., Arıkan O.

Birsen Yayınevi, İstanbul, 2005

III. **Enerji Kalitesi ve Harmonikler Kurs Notu**

KOCATEPE C., UMURKAN N., ATTAR F., YUMURTACI R., KARAKAŞ A., ARIKAN O.

Elektrik Mühendisleri Odası, İstanbul, 2005

IV. **ELEKTRİK TESİSLERİNDE HARMONİKLER**

KOCATEPE C., UZUNOĞLU M., YUMURTACI R., Karakaş A., ARIKAN O.

Birsen Kitap Yayınevi, İstanbul, 2003

## Refereed Congress / Symposium Publications in Proceedings

I. **Solar Power Plant Sizing according to Feed in Tariff Sales Constraints by Considering Harmonic Losses**

Yıldırım S. G., Durusu A., Arıkan O.

16th Electrical Engineering Faculty Conference - BULEF, Varna, Bulgaria, 19 - 22 September 2024, pp.1-6

II. **FEM Based Air-Core Reactor Modelling for Series Inductor of SPRFCL**

Akın F., Arıkan O., Kucukaydin B.

9th International Conference on Engineering and Emerging Technology, ICEET 2023, İstanbul, Turkey, 27 - 28 October 2023

III. **Mechanical effect of electrical curing for metakaolin and slag based geopolymer mortars with different molarities**

Gökçeğöz Y., Uysal M., Arıkan O., Salhi M.

4th International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 28 - 30 September 2022, pp.837-843

IV. **Validation of The Single Train Simulation Model With a Real-World Case Study**

YILDIZ A., ARIKAN O., KESKİN K.

2022 International Conference on Electrical, Computer and Energy Technologies (ICECET), 20 July 2022

- V. **Thermal Performance Analysis Of Overhead Conductors**  
Dinç M., Arıkan O., Akın F.  
ISAS2022 - 5th International Symposium on Innovative Approaches in Smart Technologies, İstanbul, Turkey, 28 May 2022
- VI. **Investigation of AC and DC Breakdown Behavior on Different Solid Insulating Materials**  
Akın F., Arıkan O., Uydur C. Ç.  
International Conference on Electrical and Electronics Engineering, ELECO, Bursa, Turkey, 25 - 27 November 2021, pp.142-146
- VII. **The Effect of Harmonic Components on Dielectric Performance of Solid Insulating Materials**  
Akın F., Arıkan O.  
Elektrik Elektronik ve Biyomedikal Mühendisliği Konferansı, ELECO 2020, Bursa, Turkey, 26 - 28 November 2020, pp.1-5
- VIII. **Optimal Electricity Tariff Management in the Scope of Energy Management on University Campuses: Bogaziçi University Case Study**  
Işcan S., ARIKAN O.  
13th International Conference on Electrical and Electronics Engineering, ELECO 2021, Virtual, Bursa, Turkey, 25 - 27 November 2021, pp.329-333
- IX. **The Effect of Insulation Defects on Electric Field Distribution of Power Cables**  
Uydur C. C., ARIKAN O., Kalenderli Ö.  
2018 IEEE International Conference on High Voltage Engineering and Application, ICHVE 2018, Athens, Greece, 10 - 13 September 2018
- X. **The Effects of Overvoltage Aging on 20 kV XLPE Power Cable**  
Uydur C. C., ARIKAN O., Kucukaydin B., Dursun B., KUMRU C. F.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.353-357
- XI. **Performance Analysis of Fault Current Limiting Methods on IEEE 9-Bus System**  
Kucukaydin B., ARIKAN O.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.131-135
- XII. **Increasing The Electrical Energy Efficiency In Urban Rail Systems**  
YILDIZ A., ARIKAN O.  
International Symposium on Electrical Railway Transportation Systems, ERUSIS 2017, 27 - 28 October 2017, pp.54-58
- XIII. **Güç Sistemlerinde Arıza Akım Sınırlamasına Yöntemlerinin İncelenmesi**  
AKAY n., ARIKAN O., KARACASU Ö.  
Elektrik - Elektronik ve Biyomedikal Mühendisliği Konferansı (ELECO 2016), Turkey, 1 December - 03 November 2016
- XIV. **LOADING ASSESSMENT OF LV AND MV CABLES SYSTEM LAID INTO SAME TRENCH IN DISTRIBUTION NETWORK**  
Arıkan O., Küçükaydin B.  
4th Interbational Conference on Advanced Technology & Science, Rome, Italy, 25 November 2016, pp.224-227
- XV. **Reliability Analysis of a Wind/PV/Battery Hybrid System: A Case Study for YTU Davutpasa Campus**  
Durusu A., Kekezoğlu B., Erduman A., Arıkan O., İşen E., Bozkurt A.  
2th South East European Conferance on Sustainable Development of Energy Water and Environment Systems, Koper, Slovenia, 15 - 17 June 2016, pp.1-6
- XVI. **Electrical Analysis of Corn Oil as an Alternative to Mineral Oil in Power Transformers**  
TASLAK E., KOCATEPE C., ARIKAN O., KUMRU C. F.  
International Conference on Power and Energy Systems Engineering, Paris, France, 27 - 28 August 2015
- XVII. **An Investigation on Electric Field Distribution Around 380 kV Transmission Line for Various Pylon**

## **Models**

KUMRU C. F., KOCATEPE C., ARIKAN O.

International Conference on Power and Energy Systems Engineering, Paris, France, 27 - 28 August 2015

- XVIII. Effects of Compensation on Distribution System Technical Losses**  
KEKEZOĞLU B., KOCATEPE C., ARIKAN O., Hacıaliefendioğlu Y., Uçar G.  
17th International Conference on Power and Energy Systems, Paris, France, 27 August 2015, pp.2400-2405
- XIX. Current Carrying Capacity Analyses Of Power Cables**  
ARIKAN O., Küçükaydın B.  
19th International Symposium on High Voltage Engineering (ISH 2015), Pilsen, Czech Republic, 23 August 2015
- XX. An Investigation on Vegetable Oils as Potential Insulating Liquid**  
Kocatepe C., TASLAK E., Kumru C. F., Arıkan O.  
World Academy of Science, Engineering and Technology, 01 August 2015, vol.9, pp.627-630
- XXI. Electrical Analysis of Corn Oil as an Alternative to Mineral Oil in Power Transformers**  
TASLAK E., Kocatepe C., Arıkan O., Kumru C. F.  
World Academy of Science, Engineering and Technology, 01 August 2015, vol.9, pp.714-718
- XXII. Electrical Properties of Low Density Polyethylene/Zinc Oxide Nanocomposite Films in Narrow Frequency Range**  
BERBER YAMAK H., Altan M., ARIKAN O.  
5th International Advances in Applied Physics and Materials Science Congress, Muğla/Fethiye, Turkey, 16 - 19 April 2015
- XXIII. Analysis of Effects of Electric Field Strength Occurred By Energy Transmission Lines On Human Health**  
KUMRU C. F., ARIKAN O., KOCATEPE C.  
International Symposium on Sustainable Development, 15 - 18 May 2014
- XXIV. Reliability analysis of hybrid energy systems: Case study of davutpasa campus**  
Kekezoğlu B., Arıkan O., Erduman A., Isen E., Durusu A., Bozkurt A.  
IEEE EuroCon 2013, Zagreb, Croatia, 1 - 04 July 2013, pp.1141-1144
- XXV. Breakdown Voltage Analysis of Insulating Oils Under Different Conditions**  
KOCATEPE C., ARIKAN O., TASLAK E., KUMRU C. F.  
01 October 2013
- XXVI. Investigation of Effect of Temperature Variation In A High Voltage Cable On Electrical Insulation**  
Kumru C. F., Arıkan O., Kocatepe C., Kalenderli Ö.  
18th International Symposium on High Voltage Engineering, Seoul, South Korea, 25 - 30 August 2013, pp.1104-1109
- XXVII. Breakdown Strength Analysis of the Transformer Insulation Oil Due to Different Standards**  
AKÇA H., KOCATEPE C., ARIKAN O., KUMRU C. F., AYAZ R.  
18th International Symposium on High Voltage Engineering, 25 - 30 August 2013, pp.1343-1347
- XXVIII. Introduction to Hybrid System - Yildiz Technical University**  
Arıkan O., İşen E., Durusu A., Kekezoğlu B., Bozkurt A., Erduman A.  
IEEE Eurocon 2013, Zagreb, Croatia, 1 - 04 July 2013, pp.1145-1149
- XXIX. The Influence of Voltage and Frequency Variations on Insulation Quality of a High Voltage Cable**  
KOCATEPE C., KUMRU C. F., AYAZ R., ARIKAN O., AKÇA H.  
IEEE EUROCON, 1 - 04 July 2013, pp.964-968
- XXX. The Influence of Voltage and Frequency Variations on Insulation Quality of a High Voltage Cable**  
KOCATEPE C., Kumru C. F., Ayaz R., Arıkan O., Akça H.  
01 July 2013
- XXXI. Reliability Analysis of Hybrid Energy Systems Case Study of Davutpasa Campus**  
Kekezoğlu B., Arıkan O., Erduman A., İşen E., Durusu A., Bozkurt A.  
IEEE Eurocon 2013, Zagreb, Croatia, 1 - 04 July 2013, pp.1141-1144
- XXXII. Yüksek Gerilim Tesislerinde Kullanılan Yalıtkan Yağların Delinme Dayanımı Analizi**  
Kocatepe C., Arıkan O., Taslak E., Kumru C. F.

5. Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 23 - 24 May 2013, pp.156-160
- XXXIII. **Yüksek Gerilim Tesislerinde Kullanılan Yalıtkan Yağların Delinme Dayanımı Analizi**  
KOCATEPE C., ARIKAN O., TASLAK E., KUMRU C. F.  
01 May 2013
- XXXIV. **Electric field measurement and analysis around a line model at different voltage levels**  
Kocatepe C., ARIKAN O., KUMRU C. F., Erduman A., UMURKAN N.  
2012 International Conference on High Voltage Engineering and Application, ICHVE 2012, Shanghai, China, 17 - 20 September 2012, pp.39-42
- XXXV. **Measurement of the dielectric performance of an instrument transformer at different voltage and frequencies**  
Arikan O., Kumru C. F., Kocatepe C.  
2012 International Conference on High Voltage Engineering and Application, ICHVE 2012, Shanghai, China, 17 - 20 September 2012, pp.451-454
- XXXVI. **Yüksek Gerilim Kablolarının Farklı Döşeme Koşullarında Isıl Analizi**  
Kocatepe C., Arikan O., Kumru C. F., Akbulut A.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 29 November - 01 December 2012, pp.194-198
- XXXVII. **Yüksek Gerilim Kablolarındaki İzolasyon Problemlerinin Elektrik Alan Dağılımına Etkisi**  
Kocatepe C., Arikan O., Kumru C. F., Orhan O. D.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 29 November - 01 December 2012, pp.189-193
- XXXVIII. **Influence of Harmonics on a Grid Connected Wind Farm System Under Variable Wind Speed Conditions**  
BOZKURT A., KOCATEPE C., ARIKAN O., KEKEZOĞLU B., İŞEN E.  
International Conference on Nuclear & Renewable Energy Resources (NURER 2012), İstanbul, Turkey, 20 May 2012, pp.1-7
- XXXIX. **Modeling and Control of a Wind Turbine with a Permanent Magnet Synchronous Generator**  
İŞEN E., BOZKURT A., KOCATEPE C., ARIKAN O., KEKEZOĞLU B.  
International Conference on Nuclear & Renewable Energy Resources (NURER 2012), İstanbul, Turkey, 20 May 2012, pp.1-6
- XL. **The Effect of Blade Size on Wind Turbine Performance**  
BOZKURT A., KOCATEPE C., KEKEZOĞLU B., ARIKAN O., İŞEN E.  
International Conference on Renewable Energy Utilization (ICREU 2012), Coimbatore, India, 04 January 2012, pp.435-439
- XLI. **Analysis of harmonics influences on load switching transients in simple power system**  
ARIKAN O., KOCATEPE C., YUMURTACI R.  
PQ 2008: 6th International Conference on Power Quality and Supply Reliability, Parnu, Estonia, 27 - 29 August 2008, pp.169-173
- XLII. **Investigation of Harmonic Effect in Turkey's Iron Steel Industry**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., ARIKAN O., BAYSAL M., BOZKURT A., AKKAYA Y., Özdemirci E.  
The 6th International Conference, 2008 Power Quality and Supply Reliability (PQ2008), Parnu, Estonia, 27 August 2008, pp.435-439
- XLIII. **Dağıtım Sisteminde Kısa Devre Gücünün Harmonik Bozulmaya Etkisi**  
KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.267-271
- XLIV. **Güç Sistemlerinde Araharmikler ve Etkileri**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.263-266
- XLV. **Harmoniklerin Kompanzasyon Tesisleri Üzerindeki Etkilerinin Rezonans Olayları Bakımından İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A., KOCATEPE C., BAYSAL M., KEKEZOĞLU B.



- Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2007, pp.272-277
- XLVI. **Dağıtım Sisteminde Kısa Devre Gücünün Harmonik Bozulmaya Etkisi**  
KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2007, pp.267-271
- XLVII. **Analysis of AC Motor Drives as a Harmonic Source**  
KEKEZOĞLU B., ARIKAN O., BOZKURT A., KOCATEPE C., YUMURTACI R.  
4th International Conference on Electrical and Power Engineering (EPE 2006), Iasi, Romania, 12 October 2006, pp.832-837
- XLVIII. **The Analysis of Magnetic Fields in Nonlinear Load Conditions by Using Matlab/Simulink**  
İZGİ E., İNAN A., ARIKAN O., BOZKURT A., NAKİR İ.  
4th International Conference on Electrical and Power Engineering (EPE-2006), Iasi, Romania, 12 October 2006, pp.653-660
- XLIX. **Kompakt Floresant Lambaların Harmonik Kaynağı Olarak İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2005), Kocaeli, Turkey, 17 May 2005, pp.207-211
- L. **Güç Sistemlerinde Araharmonikler Ve Etkileri**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2005, pp.263-266
- LI. **Harmoniklerin Kompanzasyon Tesisleri Üzerindeki Etkilerinin Rezonans Olayları Bakımından İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A., KOCATEPE C., BAYSAL M., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.272-277

## Supported Projects

- TOKER Ö. S., KARASU S., ÖZMEN D., ARIKAN O., BEKİROĞLU H., KARAMAN S., AKIN F., BOZKURT F., Project Supported by Higher Education Institutions, Endüstriyel Gıda Atıklarından Elde Edilen Proteinlerin Yüksek Gerilim Uygulamasıyla Modifiye Edilerek Model Gıdalarda Kullanım Olanaklarının Araştırılması, 2023 - Continues
- UYSAI M., GÖKÇEGÖZ Y., ARIKAN O., Project Supported by Higher Education Institutions, Geopolimer Harçların Durabilitesinin İncelenmesi, 2022 - Continues
- Uysal M., Bilir T., Çoşgun T., Arıkan O., Kara H., TUBITAK Project, Farklı Fiberler İçeren TEOS ile aktive edilmiş Cüruf-Uçucu Kül Esaslı Geopolimer Kompozitlerin Elektriksel Kür Potansiyelinin İncelenmesi, 2023 - 2026
- ARIKAN O., Uydur C. Ç., Project Supported by Higher Education Institutions, Orta Gerilim Yeraltı Kablolarda Kullanılan Yalıtkanın Dielektrik Performansı Üzerinde Aşırı Gerilim Ve Darbe Gerilimi Etkilerinin İncelenmesi, 2020 - 2022
- ARIKAN O., Akın F., Project Supported by Higher Education Institutions, Isıl Yaşlandırmaya Maruz Bırakılmış Katı Yalıtkan Malzemelerin Farklı Gerilimler Altında Dielektrik Performanslarının Analizi, 2021 - 2021
- Arıkan O., TUBITAK Project, Katı-Hal Arıza Akımı Sınırlayıcı Tasarımı, 2020 - 2021
- Arıkan O., Kavak Z., Project Supported by Other Private Institutions, Trafik Sinyalizasyonda Kullanılan Araç Algılama Sensörlerinin Yapılarının İncelenerek Mevcut Arıza Sayıları ve Bunların Kök Nedenlerinin Saptanması, Yapılan İş Kapsamında Geliştirici Yöntemlerin Oluşturulması, Yeni Nesil Sensör Sistemlerinin Geliştirilmesi, 2018 - 2019
- Arıkan O., Pultar G., TUBITAK Project, Çoklu Ağ ve Örgütsel Güvenli Ağ Teknolojileri kullanarak Akıllı Binalarda Enerji Verimliliği Yönetimi ve Tahminleme, 2018 - 2019
- Arıkan O., Project Supported by Other Private Institutions, Elektrik sistemlerinde harmonik etkinliklerin belirlenmesi, EPDK yönetmeliklerine uygun olup olmadığının incelenmesi ve problemlerle noktalara çözüm önerileri getirilmesi ile ilgili Ar-Ge çalışması yürüttüklerinden dolayı, güç kalitesi analizörleri ile ölçülen ve standartlara uygun olarak teslim edilen verileri uygun yazılım ile verileri işlemeleri, ölçüm sonuçlarını analiz edip değerlendirmeleri, çözüm önerileri getirmeleri, 2017 - 2017
- Arıkan O., Project Supported by Other Official Institutions, Kompozit Özlü Alüminyum İletken Pilot Bölge Uygulama, 2017 - 2017
- Arıkan O., Kavak Z., Project Supported by Other Private Institutions, Endüktif Loop Analizi, 2016 - 2017

TASLAK E., KUMRU C. F., ARIKAN O., Project Supported by Other Official Institutions, Dağıtım Şebekesinde Kullanılan Yeraltı Kablolarının Arıza-Yanma-Ömür Kısalması Durumlarının İncelenmesi, Sebeplerinin Analizi ve Çözüm Önerilerinin Sunulması, 2015 - 2016

ARIKAN O., Project Supported by Other Official Institutions, Dağıtım Şebekelerinde Gerçeğe En Yakın Teknik Kayıp Seviyesinin Dinamik Olarak Belirlenmesi için Metodoloji ve Yazılım Gelistirilmesi, 2014 - 2016

Durusu A., Arıkan O., Kekezoğlu B., Bozkurt A., Kumru C. F., Kocatepe C., Tanrıöven M., Project Supported by Higher Education Institutions, Küçük Ölçekli Hibrid Rüzgar Güneş Enerji Sistemlerinde Güvenilirlik Analizi Davutpaşa Kampüsü Örnek Uygulaması, 2012 - 2015

Durusu A., Baysal M., Selamoğulları U. S., Boynueğri A. R., Kekezoğlu B., Arıkan O., Kocatepe C., Uzunoğlu M., Karakaş A., Project Supported by Higher Education Institutions, Enerji Tasarrufu ve Sürdürülebilirliği Sağlayacak Biçimde Akıllı Şebeke Altyapısına Yönelik Yol Aydınlatması Sistemi - Yıldız Teknik Üniversitesi Davutpaşa Kampüsü Uygulaması, 2012 - 2014

Ermış M., Kocatepe C., Yumurtacı R., Arıkan O., TUBITAK Project, Türkiye Elektrik Sisteminde Güç Kalitesine Etki Eden Değişkenleri ve Güç Kalitesini İzleme, Problemlerin Tespiti, Değerlendirilmesi ve Karşı Önlemlerin Hayata Geçirilmesi, TÜBİTAK Projesi, 105G129, 2006 - 2009

## **Metrics**

Publication: 96

Citation (WoS): 141

Citation (Scopus): 181

H-Index (WoS): 6

H-Index (Scopus): 7

## **Non Academic Experience**

TUBITAK, TÜBİTAK Marmara Araştırma Merkezi, Enerji Enstitüsü

TÜBİTAK

TUBITAK, TÜBİTAK Marmara Araştırma Merkezi, Enerji Enstitüsü

TÜBİTAK