

# Prof. Aydođan Özdemir

## Personal Information

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## Education Information

Doctorate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1984 - 1990

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1980 - 1982

Undergraduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1975 - 1980

## Foreign Languages

English

## Dissertations

Doctorate, Approximate Sub-Optimum Techniques for Optimal Power Flow, İstanbul Teknik Üniversitesi, Elektrik Mühendisliği, Elektrik Mühendisliği, 1990

Postgraduate, Darbe Gerilim Bölücülerinin Ölçeklenmesi, İstanbul Teknik Üniversitesi, Elektrik Fakültesi, Elektrik Mühendisliği, 1982

## Research Areas

Technical Sciences, Electrical and Electronics Engineering, Energy, Power System Analysis, Electric Power Transmission, Distribution and Protection, Renewable energy, High Voltage Technique

## Academic Titles / Tasks

Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2003 - Continues

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1994 - 2003

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1991 - 1994

## Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği, 2011 - 2014

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, 2010 - 2011

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, 1991 - 2001

Rectorate Commissioner, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1993 - 1997

## Advising Theses

- Özdemir A., YÜKSEK DOĞRU GERİLİM (HVDC) İLETİM HATLARININ KORONA KARAKTERİSTİKLERİ VE ELEKTROMANYETİK ETKİLERİ, Doctorate, A.FONT(Student), 2020
- Özdemir A., Convolutional neural network based partial discharge pattern classification of medium voltage cable terminations, Postgraduate, H.İBRAHİM(Student), 2020
- Özdemir A., OPTIMAL DISTRIBUTED GENERATION ALLOCATION AND SIZING IN RADIAL DISTRIBUTION NETWORKS BY CUCKOO SEARCH ALGORITHM, Postgraduate, M.Majidi(Student), 2017
- Özdemir A., Elektrik İletim Sistemi Güç Transformatörleri İçin Güvenilirlik Merkezli Donanım Yönetimi Sürecinin Kurulması ve Değerlendirilmesi, Doctorate, A.Sezgin(Student), 2016
- Özdemir A., Impacts of Distributed Generation On Distribution System Reliability, Postgraduate, S.Saeedi(Student), 2016
- Özdemir A., Bakır Giydirilmiş Alüminyum İletkenli Geçit İzolatörü Geliştirilmesi, Postgraduate, İ.Erden(Student), 2013
- Özdemir A., Dependent Failures and Failure Propagation in Electric Power Systems, Postgraduate, K.SAEILAILONAHAR(Student), 2013
- Özdemir A., An Automation of High Voltage Impulse Generator, Postgraduate, F.ABDOLALIZADEHGHAREHVERAN(Student), 2013
- Özdemir A., Darbe Generatörü Veri Alma ve İşleme Yazılımı, Postgraduate, E.DOKUR(Student), 2013
- Özdemir A., Corona Ring Design and Optimization for 380 Kv V-Insulator Strings Used In Turkish National Power Transmission System, Doctorate, S.İLHAN(Student), 2012
- Özdemir A., Akıllı Yöntem Tabanlı Tekli ve İkili Kısıtlılık Analizi, Doctorate, O.Ceylan(Student), 2012
- Özdemir A., Corona ring design and parameter optimization for 380 kV V-insulator strings used in Turkish national power transmission system, Doctorate, S.İLHAN(Student), 2012
- Özdemir A., 380 kV Enerji İletim Sisteminde Hat Parafudr Koruması, Postgraduate, C.Öztürk(Student), 2011
- Özdemir A., 154 kv hava hattı silikon kauçuk izolatörde alternatif ve darbe gerilimlerinde elektrik alan dağılımının incelenmesi, Postgraduate, C.Yıldız(Student), 2010
- Özdemir A., Yıldırımdan Koruma: Çeşitli Yöntemler, Üstünlükleri Ve Sakıncaları, Postgraduate, Z.Faydalı(Student), 2009
- Özdemir A., Elektrik Enerji Sistemlerinde Güvenilirlik Temelli Bakım, Postgraduate, E.Deniz(Student), 2008
- Özdemir A., Petkim petrokimya Aliağa tesisi'nin elektrik sisteminin yük akışı ve kısa dere hesapları, Postgraduate, A.Can(Student), 2007
- Özdemir A., Genetik algoritmalar ile enerji iletim kayıpları ve saatlik yakıt giderleri optimizasyonu, Postgraduate, S.ŞENEL(Student), 2006
- Özdemir A., Katı yalıtkanlardaki elektriksel zorlanmalar ve ömür saptaması, Postgraduate, S.İLHAN(Student), 2004
- Özdemir A., Elektrik enerji sistemlerinde güvenilirlik değerlendirme için kısıtlılık seçimi, Doctorate, R.Çağlar(Student), 1999
- Özdemir A., Distribution System Reliability Assessment: Structural Approach, Postgraduate, F.Mekiç(Student), 1999
- Özdemir A., Modeling of Metal Oxide Surge Arresters, Postgraduate, L.Kılıç(Student), 1996

## Jury Memberships

Doctorate, Doctorate, Universiti Teknologi Mara, July, 2016

Associate Professor Exam, Associate Professor Exam, İstanbul Teknik Üniversitesi, April, 2015

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **Workmanship defect classification in medium voltage cable terminations with convolutional neural network**

Üçkol H. İ., İlhan S., Özdemir A.

Electric Power Systems Research, vol.194, 2021 (Journal Indexed in SCI)

- II. **Development of an innovative grid ancillary service for PV installations: Methodology, communication issues and experimental results**  
Tsiakalos A., Tsiamitros D., Tsiakalos A., Stimoniaris D., Ozdemir A., Roumeliotis M., Asimopoulos N.  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.44, 2021 (Journal Indexed in SCI)
- III. **Comparative Properties of HTV Silicone Rubber for Composite Insulators - ATH and Silica Fillers**  
İlhan S., Tuzun D., Ozdemir A.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.28, no.2, pp.414-422, 2021 (Journal Indexed in SCI)
- IV. **Simulations and Experimental Studies towards Thermal Performance Improvement of 36 kV Bushings**  
İlhan S., Erden I., Özdemir A.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.187, 2020 (Journal Indexed in SCI)
- V. **A gamification platform to foster energy efficiency in office buildings**  
Iria J., Fonseca N., Cassola F., Barbosa A., Soares F., Coelho A., Özdemir A.  
ENERGY AND BUILDINGS, vol.222, 2020 (Journal Indexed in SCI)
- VI. **Reliability improvement of distribution system considering EV parking lots**  
Guner S., Özdemir A.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.185, 2020 (Journal Indexed in SCI)
- VII. **DC corona characteristics derived from corona cage tests and simulations**  
Font A., Solak Y. T., İlhan S., Özdemir A., İSMAİLOĞLU H., Espino Cortes F.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.26, no.6, pp.1867-1875, 2019 (Journal Indexed in SCI)
- VIII. **Optimization of Radio Interference Levels for 500 and 600 kV Bipolar HVDC Transmission Lines**  
Tejada-Martinez C., Espino-Cortes F. P., İlhan S., Özdemir A.  
ENERGIES, vol.12, no.16, 2019 (Journal Indexed in SCI)
- IX. **Development and Field Demonstration of a Gamified Residential Demand Management Platform Compatible with Smart Meters and Building Automation Systems**  
Zehir M. A., Ortac K. B., Gul H., Batman A., Aydin Z., Portela J. C., Soares F. J., Bağrıyanık M., Kucuk U., Özdemir A.  
ENERGIES, vol.12, no.5, 2019 (Journal Indexed in SCI)
- X. **Impacts of microgrids with renewables on secondary distribution networks**  
Zehir M. A., BATMAN A., SONMEZ M. A., Font A., TSIAMITROS D., STIMONIARIS D., KOLLATOU T., Bağrıyanık M., Özdemir A., Dialynas E.  
APPLIED ENERGY, vol.201, pp.308-319, 2017 (Journal Indexed in SCI)
- XI. **Stochastic energy storage capacity model of EV parking lots**  
Guner S., Özdemir A.  
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.11, no.7, pp.1754-1761, 2017 (Journal Indexed in SCI)
- XII. **Demand-side management by integrating bus communication technologies into smart grids**  
Stimoniaris D., KOLLATOU T., TSIAMITROS D., ZEHİR M. A., BATMAN A., Bağrıyanık M., Özdemir A., Dialynas E.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.136, pp.251-261, 2016 (Journal Indexed in SCI)
- XIII. **Improved transformer maintenance plan for reliability centred asset management of power transmission system**  
Koksal A., Özdemir A.  
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.10, no.8, pp.1976-1983, 2016 (Journal Indexed in SCI)
- XIV. **Heuristic methods for postoutage voltage magnitude calculations**  
Ceylan O., Özdemir A., Dag H.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.1, pp.105-120, 2016 (Journal Indexed in SCI)
- XV. **Double branch outage modeling and simulation: Bounded network approach**  
Ceylan O., Ozdemir A., Dag H.

INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.73, pp.369-376, 2015 (Journal Indexed in SCI)

- XVI. **Numerical and Experimental Investigation of the Effects of Pollution on Glass Suspension-type Insulators**  
İlhan S., Özdemir A., Jayaram S. H. , Cherney E. A.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.22, no.5, pp.2987-2994, 2015 (Journal Indexed in SCI)
- XVII. **Impacts of Corona Rings on the Insulation Performance of Composite Polymer Insulator Strings**  
İlhan S., Özdemir A., Ismailoglu H.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.22, no.3, pp.1605-1612, 2015 (Journal Indexed in SCI)
- XVIII. **New structural approach for distribution system reliability assessment**  
Ozdemir A., Mekic F., Caglar R.  
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, vol.9, no.3, pp.175-181, 1999 (Journal Indexed in SCI)
- XIX. **APPROXIMATE SUB-OPTIMUM TECHNIQUES FOR OPTIMAL POWER FLOW**  
OZDEMİR A.  
ELECTRIC MACHINES AND POWER SYSTEMS, vol.21, no.3, pp.267-279, 1993 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Far-field prediction for radio-interference produced by fundamental frequency of a DC Corona discharge at a Rod-Plane configuration**  
Salazar Hernandez J. C. , Miranda R., cortes F. E. , ÖZDEMİR A.  
IEEE Electromagnetic Compatibility Magazine, vol.9, no.3, pp.37-43, 2020 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Impacts of Load and Generation Volatilities on the Voltage Profiles Improved by Distributed Energy Resources**  
ahmadi b., CEYLAN O., ÖZDEMİR A.  
2020 55th International Universities Power Engineering Conference (UPEC), Torino, Italy, 1 - 04 September 2020
- II. **Voltage Profile Improving And Peak Shaving Using Multi-type Distributed Generators And Battery Energy Storage Systems In Distribution Networks**  
ahmadi b., CEYLAN O., ÖZDEMİR A.  
2020 55th International Universities Power Engineering Conference (UPEC), Torino, Italy, 1 - 04 September 2020
- III. **Partial Discharge Pattern Classification based on Deep Learning for Defect Identification in MV Cable Terminations**  
Üçkol H. İ. , İlhan S., Özdemir A.  
7th IEEE International Conference on High Voltage Engineering and Application, ICHVE 2020, Beijing, China, 6 - 10 September 2020
- IV. **Optimal allocation of multi-type distributed generators for minimization of power losses in distribution systems**  
ahmadi b., CEYLAN O., ÖZDEMİR A.  
20th International Conference on Intelligent Systems Applications to Power Systems – ISAP 2019, Delhi, Canada, 10 - 14 December 2019
- V. **Detailed Evaluation of Long-term Gamified Residential Demand Management System Field Implementation**  
Dashti N., ZEHİR M. A. , Gül H., batman a., BAĞRIYANIK M., küçük ü., Soares F. J. , ÖZDEMİR A.  
20th International Conference on Intelligent Systems Applications to Power Systems – ISAP 2019, Delhi, Canada, 10

- 14 December 2019

- VI. **Grey wolf optimizer for allocation and sizing of distributed renewable generation**  
ahmadi b., CEYLAN O., ÖZDEMİR A.  
54rd International Universities Power Engineering Conference, Bucharest, Romania, 3 - 06 September 2019
- VII. **AC and DC field distributions in glass, RTV-coated glass and composite insulators**  
Uckol H. İ. , İLHAN S., ÖZDEMİR A.  
11th International Conference on Electrical and Electronics Engineering, ELECO 2019, Bursa, Turkey, 28 - 30 November 2019, pp.336-340
- VIII. **A reliability-transient stability analysis of power systems for protection system conditions**  
SEZGİN KÖKSAL H. A. , mitra j., ÖZDEMİR A.  
Modern Electric Power Systems MEPS'19, Wroclaw, Poland, 9 - 12 September 2019
- IX. **Cuckoo search algorithm for optimal siting and sizing of multiple distributed generators in distribution grids**  
ahmadi b., CEYLAN O., ÖZDEMİR A.  
Modern Electric Power Systems MEPS'19, Wroclaw-POLAND, September 9-12, 2019., 9 - 12 September 2019
- X. **Impacts of Feeder Failure Statistics on EV-Supported Distribution System Reliability Improvement**  
GÜNER S., ÖZDEMİR A.  
2019 IEEE Milan PowerTech, Milan, Italy, Italy, 23 - 27 June 2019
- XI. **Corona Inception and Breakdown Voltages of Rod-Plane Electrode for Severe Ambient Conditions**  
Gharaaghaji S. S. , Fadil H., İLHAN S., ÖZDEMİR A., İSMAİLOĞLU H., cortes F. E.  
2019 IEEE Milan PowerTech, Milan, Italy, Italy, 23 - 27 June 2019
- XII. **Minimization of Radio Interference Levels in a Hybrid Transmission Line**  
Martinez C. T. , cortes F. E. , ÖZDEMİR A., İLHAN S.  
2019 IEEE Milan PowerTech, Milan, Italy, Italy, 23 - 27 June 2019
- XIII. **The Loss of Hydrophobicity of HTV Silicone Rubber in a Dynamic Drop Test**  
İLHAN S., Tüzün D., ÖZDEMİR A.  
21th International Symposium on High Voltage Engineering-ISH 2019, Budapest, Hungary, 25 - 30 August 2019
- XIV. **Electrical Performance of HTV Silicone Rubber under Different Fillers and Filler Loadings**  
İLHAN S., Tuzun D., ÖZDEMİR A.  
2019 Electrical Insulation Conference, Calgary, Canada, 16 - 19 June 2019
- XV. **Computation Of the Corona Onset Voltage For DC at Two Different Altitudes**  
cortes F. E. , cortes R. V. , miranda R. L. , ÖZDEMİR A., İLHAN S.  
2019 Electrical Insulation Conference, Calgary, Canada, 16 - 19 June 2019
- XVI. **Management of Inverter-based Distributed Energy Resources for Providing Voltage Regulation Support in Islanded Operation of Low Voltage Networks**  
ZEHİR M. A. , Antonio B., Sandroni C., Pellegrino L., Lazzari R., Verga L., BAĞRIYANIK M., küçük ü., Soares F. J. , ÖZDEMİR A.  
2018 53rd International Universities Power Engineering Conference (UPEC), Glasgow, United Kingdom, 4 - 07 September 2018
- XVII. **Aggregated Active and Reactive Power and Energy Management of Distributed Energy Resources and Performance Evaluation**  
ZEHİR M. A. , BARBOSA A., SANDRONI C., PELLEGRINO L., LAZZARI R., VERGA M., BAĞRIYANIK M., Küçük Ü., SOARES F., ÖZDEMİR A.  
11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER) 2018, Dubrovnik, Croatia, 12 - 15 November 2018, pp.1-6
- XVIII. **Gamification Approaches to Increase End Users' Flexibility**  
ÖZDEMİR A.  
The 11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, Special Session on Distributed Energy Resources and the Use of Flexibility in Future Power Systems, MEDPOWER2018, Dubrovnik, Croatia, 12 - 15 November 2018
- XIX. **Building Automation Systems and Smart Meter Integrated Residential Customer Platform**

AYDIN z., PORTELA J. C. , Küçük Ü., ZEHİR M. A. , GÜL H., BAĞRIYANIK M., SOARES F., ÖZDEMİR A.

11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER) 2018, Dubrovnik, Croatia, 12 - 15 November 2018

- XX. **Optimization of Corona Radio Interference Levels in HVDC Transmission Lines**  
MARTÍNEZ C. T. , CORTES F. E. , İLHAN S., ÖZDEMİR A.  
2018 International Conference on High Voltage Engineering and Application, ICHVE 2018, 10 - 13 September 2018
- XXI. **Determination of Corona Inception Voltages of Rod-Plane Electrode Systems**  
İLHAN S., ÖZDEMİR A., AYTUG f., ESPİNOCORTES F.  
International Conference on High Voltage Engineering (ICHVE 2018), 10 - 13 September 2018
- XXII. **An Extended Parametric Analysis of Transformer Maintenance Plan Using Markov State Diagram**  
Koksal A., Özdemir A.  
IEEE International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Idaho, United States Of America, 24 - 28 June 2018
- XXIII. **System-level RCAM assessment of power transformers using fuzzy multi-attribute scoring procedure**  
Koksal A., Özdemir A., MİTRA J.  
2018 International Conference on Probabilistic Methods Applied to Power Systems, PMAPS 2018, Idaho, United States Of America, 24 - 28 June 2018
- XXIV. **Identification and comparison of power and energy management capabilities of distributed energy resources**  
ZEHİR M. A. , Barbosa A., Sandroni C., Lazzari R., Pellegrino L., Verga L., BAĞRIYANIK M., küçük ü., Soares F. J. , ÖZDEMİR A.  
2018 6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018
- XXV. **Demand response with residential and commercial loads for phase balancing in secondary distribution networks**  
ZACHARAKİ V., Zehir M., THAVLOV A., HEUSSEN K., Batman A., TSİAMITROS D., Stimoniaris D., Özdemir A., DIALYNAS E., Bağrıyanık M.  
6th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2018, İstanbul, Turkey, 25 - 26 April 2018, pp.124-128
- XXVI. **Generator Stator Sargılarında Korona Boşalmaları**  
ÖZDEMİR A.  
2. Jenerator ve Enerji Sistemleri Çalıştayı, İŞBİR Elektrik-BALIKESİR), Balıkesir, Turkey, 8 - 09 March 2018
- XXVII. **Development and demonstration of a system that enables PV sun-tracking installations to supply ancillary services to the grid**  
TSİAKALOS A., ORTH c., TSİAMITROS D., Stimoniaris D., ÖZDEMİR A., ROUMELİOTİS M., NUCCI C.  
10th International Conference on Electrical and Electronics Engineering ELECO 2017, Bursa, Turkey, 30 November - 02 December 2017
- XXVIII. **Seasonal Impacts on the Storage Capacity of EV Parking Lots**  
GÜNER S., ÖZDEMİR A.  
IEEE PES Innovative Smart Grid Technologies Europe, ISGT 2017, torino, Italy, 26 - 29 September 2017
- XXIX. **RCAM based maintenance plan of the power transformers using k-means clustering algorithm**  
Koksal A., Ozdemir A., Ata O.  
19th International Conference on Intelligent System Application to Power Systems, ISAP 2017, Texas, United States Of America, 17 - 20 September 2017
- XXX. **Building/Home Energy Management and Automation Systems and Technologies**  
ÖZDEMİR A.  
British Council Researcher Links Workshop: Smart Grid Transformation of Existing Electricity Networks in the UK and Turkey: What are the Challenges and How They Change from Smart Cities to Smart Villages, İstanbul, Turkey, 5 - 07 September 2017
- XXXI. **AC/DC Corona Characteristics of the Conductors in an Indoor Corona Cage**  
FONT A., ersoy s., İLHAN S., ÖZDEMİR A., cortes F. E.

- 20th International Symposium on High Voltage Engineering-ISH 2017, Boines Aires, Argentina, 28 August - 01 September 2017
- XXXII. **Surface Discharge Characteristics of Epoxy Resin Insulation Under Non-Uniform Electric Field Distribution**  
İLHAN S., FONT A., YILDIZ İ., KÖSEOĞLU K., ÖZDEMİR A.  
20th International Symposium on High Voltage Engineering-ISH 2017, Buenos Aires, Argentina, 28 August - 01 September 2017
- XXXIII. **Analysis of Consumer Expectations, Preferences and Concerns on Deployment of Demand Response in Turkey**  
ZEHİR M. A. , Erpaytoncu S., Yilmaz E., Balci D., Batman A., Bağrıyanık M., Kucuk U., Soares F. J. , Özdemir A.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1262-1266
- XXXIV. **GReSBAS project: A gamified approach to promote more energy efficient behaviours in buildings**  
ANTÓNIO B., JOSE I., CASSOLA F., COELHO A., JOAO P., Küçük ü., AG M., ZEHİR M. A. , ÖZDEMİR A., SOARES F. J.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1258-1261
- XXXV. **Determination of optimal component maintenance process for RCAM of power transmission system using TOPSIS method**  
Koksal H. A. , Özdemir A.  
2016 International Conference on Probabilistic Methods Applied to Power Systems, PMAPS 2016, Beijing, China, 16 - 20 October 2016
- XXXVI. **EV Parking Lots New Storage Assets of Smart Cities**  
ÖZDEMİR A., GÜNER S.  
Innovative Manufacturing Engineering & Energy International Conference, IManEE 2016, Chalkidiki, Greece, 23 - 25 September 2016
- XXXVII. **Analysis of critical operating conditions for LV distribution networks with microgrids**  
ZEHİR M. A. , BATMAN A., Sönmez M. Ş. , Font A., TSİAMİTROS D., STİMONİARİS D., KOLLATOU T., Bağrıyanık M., Özdemir A., Dialynas E.  
20th Innovative Manufacturing Engineering and Energy Conference (IManEE), Kallithea, Greece, 23 - 25 September 2016, vol.161
- XXXVIII. **Line surge arrester application for a 380 kV power transmission line**  
Font A., İlhan S., Özdemir A.  
5th IEEE International Conference on High Voltage Engineering and Application, ICHVE 2016, Chengdu, China, 19 - 22 September 2016
- XXXIX. **Determining Stochastic Storage Capacity of EV Parking Lots Using Monte-Carlo Simulation**  
Guner S., Özdemir A.  
Electric Electronics, Computer Science, Biomedical Engineerings' Meeting (EBBT), İstanbul, Turkey, 26 - 27 April 2016
- XL. **Elektrikli Araç Park Alanlarının Olasılıksal Depolama Kapasitesinin Monte-Carlo Benzetimi ile Belirlenmesi**  
GÜNER S., ÖZDEMİR A.  
Elektrik-Elektronik, Bigisayar, Biyomedikal Mühendislikleri Bilimsel Toplantısı, EBBT 2016, Turkey, 26 - 27 April 2016
- XLI. **Impact of renewable based microgrid supply/demand profiles on low voltage distribution networks**  
ZEHİR M. A. , BATMAN A., Sönmez M. Ş. , Font A., TSİAMİTROS D., STİMONİARİS D., KOLLATOU T., Bağrıyanık M., Özdemir A., Dialynas E.  
Applied Energy Symposium and Submit on Renewable Energy Integration with Mini/Microgrid (REM), Maldives, 19 - 21 April 2016, vol.103, pp.231-236
- XLII. **RCAM Based Asset Management Study for Turkish National Power Transmission System: Verification Stage**  
Koksal A., Ozdemir A.

4th IEEE International Conference on Sustainable Energy Technologies (ICSET), Ha-Noi, Vietnam, 14 - 16 November 2016, pp.169-173

**XLIII. Cooperation scheme between KNX and a microgrid control system for enhanced demand-side management**

Stimoniaris D., Kollatou T., TSIAMITROS D., GAVROS K., KIKIS V., ASIMONIS S., Zehir M., BATMAN A., Bağrıyanık M., Özdemir A., et al.

9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.46-50

**XLIV. Development of a Field Data-based Virtual Test Bed for Microgrid Integration of Building Automation Technologies**

ZEHİR M. A. , BATMAN A., SONMEZ M. A. , Font A., TSIAMITROS D., STIMONIARIS D., KOLLATOU T., Bağrıyanık M., Özdemir A., Dialynas E.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.51-55

**XLV. Distributed storage capacity modelling of EV parking lots**

Guner S., Özdemir A.

9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.359-363

**XLVI. Transformer Ranking for Asset Management of Power Transmission Systems using Fuzzy Multi-Attribute Scoring Procedure**

Koksal a., Özdemir A.

The 18th International Conference on Intelligent System Applications to Power Systems, ISAP 2015, Porto, Portugal, 11 - 17 September 2015, pp.1-5

**XLVII. Design Considerations of A 36 kV Silicone Rubber Wall Type Bushing**

İlhan S., Özdemir A.

19th International Symposium on High Voltage Engineering-ISH 2015, Pilsen, Czech Republic, 23 - 28 August 2015, pp.1-5

**XLVIII. Techno-Economic Analysis of Using 477 MCM ACSS/TW Conductors in Turkish 154 kV Power Transmission System**

Özdemir A., İlhan S.

19th International Symposium on High Voltage Engineering-ISH 2015, Pilsen, Czech Republic, 23 - 28 August 2015, pp.1-5

**XLIX. Impact of Adverse Weather Conditions on Outage Statistics of 154 kV Power Transmission System**

Özdemir A., Bağrıyanık M., Kaypmaz A., Gül Ö., ILISU I.

International conference on electronics, communications and computers, Puebla, Mexico, 25 - 27 February 2015, pp.29-34

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**LII. RCAM model for Turkish National Power Transmission System: SF6 circuit breakers, transmission lines, transformer centers and protection relays**

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**LIII. Failure propagation in Turkish National Power System**

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- LV. **Role of Advanced Demand Response in Organizing Distributed Energy Resources as Virtual Power Plants**  
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- LVI. **Improvement of thermal performance of 36 kV DAF-30 type bushing**  
ERDEN I., Özdemir A., İlhan S.  
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- LVII. **Improvement of Heat Distribution in DAF-30 Type Bushings**  
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- LVIII. **Line Surge Arrester Protection Design for An 380 kV Power Transmission Line**  
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- LIX. **Design of Corona Rings For 380 kV nonceramic V-Insulator String**  
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- LXXV. **OG Kablo Dielektrik Özelliklerin Sıcaklık ve Gerilimle Değişimi**  
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- CXVI. **Güç Kapasitesini Büyütmenin Güvenilirlik Seviyesine etkisi**  
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4. Bursa Elektromekanik Kongresi, Turkey, 2 - 05 December 1997, pp.54-57

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## Supported Projects

- Özdemir A., Ceylan O., TUBITAK Project, Akıllı Şebekeler Ve Akıllı Toplum İçin Gelişmiş Evrimsel Hesaplamalar, 2018 - 2020
- İlhan S., Özdemir A., Project Supported by Higher Education Institutions, Silikon Kaplı İzolatörlerin Elektriksel ve Isıl Özelliklerinin İyileştirilmesi, 2018 - 2020
- Özdemir A., İlhan S., Project Supported by Higher Education Institutions, Yıldırıma Karşı Koruma Düzeneklerinin Değerlendirilmesi ve Karşılaştırılması, 2017 - 2019
- İlhan S., Özdemir A., Cortes F. E. , TÜBİTAK International Bilateral Joint Cooperation Program Project, Corona discharge characterization and electromagnetic effects of HVDC transmission lines, 2017 - 2019
- Özdemir A., İlhan S., TUBITAK Project, Uzun Ömürlü Silikon İzolatör İçin Optimum Katkı Kompozisyonu Belirlenmesi Ve Ömür Kestirimi., 2017 - 2019
- Özdemir A., Bağrıyanık M., Soares F. J. , H2020 Project, Grid Responsive Society Through Building Automation Systems GReSBAS, 2016 - 2019
- Özdemir A., Project Supported by Higher Education Institutions, Ulusal Elektrik İletim Sistemimiz İçin Güvenilirlik Tabanlı Donanım Yönetimi: Doğrulama Süreci, 2016 - 2018
- Özdemir A., Project Supported by Higher Education Institutions, Araç Geliş/Gidiş Şablonlarının Elektrikli Araç Otopark Enerji Kapasitesine Etkisi, 2016 - 2018
- Özdemir A., Project Supported by Higher Education Institutions, Olumsuz Hava Koşullarının 154 Kv Ulusal Elektrik İletim Sistem Arızalarına Etkisi, 2015 - 2018
- Özdemir A., Project Supported by Higher Education Institutions, Ulusal Elektrik İletişim Sistemlerinde Arıza Yayılımı, 2014 - 2018
- Özdemir A., Project Supported by Higher Education Institutions, Armoni Arama Yöntemi ile Optimal PMU Yerleşimi, 2013 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Elektrik Enerji İletim Sistemlerinde Arıza Yayılması ve Ardışık Arızalar, 2013 - 2018

Özdemir A., Project Supported by Higher Education Institutions, 380 kV V-Askı Zincirlerin Düzgün Yüzey Kirlenmesi Durumunda Arlama Performansı, 2011 - 2018

Özdemir A., Project Supported by Higher Education Institutions, ARMONİ ARAMA TABANLI PARALEL KISITLIK ANALİZİ, 2010 - 2018

Özdemir A., Project Supported by Higher Education Institutions, TÜRKİYE ELEKTRİK İLETİM ŞEBEKESİNDE GTB GÜVENLİK TEMEL BAKIM UYGULAMASI, 2010 - 2018

Özdemir A., Project Supported by Higher Education Institutions, ELEKTRİK ENERJİ SİSTEMLİNDE HAT ÇIKMA PROBLEMİNİN DİFERANSİYEL GELİŞİM EVRİMSEL ALGORİTMASI İLE ÇÖZÜMÜ, 2009 - 2018

Özdemir A., Project Supported by Higher Education Institutions, PETKİM Aliğa Petrokimya Kompleksi Elektrik Enerji Sisteminin Yük Akışı Analizi, 2009 - 2018

Özdemir A., Project Supported by Higher Education Institutions, İzolatör Zincirlerinde Farklı Eleman Kullanımlarının Gerilim Dağılımına Etkisi, 2007 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Kesme Akımın Kapasitif Devre Açılmasındaki Geçici Olaylara Etkisi, 2004 - 2018

Özdemir A., Djokic S., Project Supported by Private Organizations in Other Countries, Smart Grid Transformation of Existing Electricity Networks in the UK and Turkey: What are the Challenges and How They Change from Smart Cities to Smart Villages, 2017 - 2017

Özdemir A., EU Supported Other Project, Gamified Management of Distributed Energy Resources , GaMDER, 2017 - 2017

Özdemir A., Kalkan G., TUBİTAK Project, Dünyanın İlk 72 kV Nominal İşletme Gerilimine Sahip Dökme Reçineli Kuru Tip Transformatörünün Tasarımı Prototip İmalatı ve Prototip Testler, 2015 - 2017

Özdemir A., TÜBİTAK International Bilateral Joint Cooperation Program Project, Smart Electrical Energy Management and Buildings Energy Efficiency Technologies, 2014 - 2016

Özdemir A., Altun M., TUBİTAK Project, Beyaz Eşya Elektronik Kartları için Yüksek Doğruluklu bir Güvenilirlik Analizi Metodolojisi, 2013 - 2016

Özdemir A., İlhan S., Industrial Thesis Project, Bakır Giydirilmiş Alüminyum İletkenli Geçit İzolatörü Geliştirme Projesi, 2013 - 2014

Özdemir A., Project Supported by Higher Education Institutions, Orta Gerilim Duvar Tipi Geçit İzolatörü Isıl Performansının İyileştirilmesi, 2013 - 2014

Özdemir A., Project Supported by Higher Education Institutions, Darbe Generatorü Veri Alma ve İşleme Yazılımı, 2011 - 2014

Özdemir A., Süer M., TUBİTAK Project, TCDD Demiryolları Elektrifikasyon Konsol Hoban Kompozit İzolatör ve Konsol Donanımı, 2010 - 2012

Özdemir A., Project Supported by Higher Education Institutions, Katı Yalıtkanlarda Elektriksel Zorlanmalar ve Ömür Saptanması, 2003 - 2004

## **Memberships / Tasks in Scientific Organizations**

IEEE, Member, 1990 - Continues, United States Of America  
Elektrik Mühendisleri Odası, Member, 1980 - Continues, Turkey

## **Mobility Activity**

Sabbatical Leave, Lecturing, Texas A&M University, United States Of America, 2000 - 2002

## **Citations**

Total Citations (WOS):378

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## Invited Talks

2020 ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI/Kısmi Boşalmalar ve Akıllı Yalıtım Arıza Tanısı Uygulamaları, Conference, Elektrik Mühendisleri Odası, Turkey, November 2020

2020 IEEE International Conference on High Voltage Engineering and Application, Plenary Speech/Intelligent Method Applications in PD Based Diagnostics, Conference, IEEE, China, October 2020

## Awards

Üçkol H. İ. , İlhan S., Özdemir A., AC and DC field distributions in glass, RTV-coated glass and composite insulators, 11Th International Conference On Electrical And Electronics Engineering Eleco 2019, November 28-30, 2019, Bursa/Turkey, November 2019

Özdemir A., Zehir M. A. , Identification and Comparison of Power and Energy Management Capabilities of Distributed Energy Resources, 6Th International Istanbul Smart Grid And Cities Congress And Fair (Icsg), 25-27 April, 2018, Istanbul-Turkey, Doi: 10.1109/Sgcf.2018.8408955 Best Paper Award, April 2018

Bağrıyanık M., Zehir M. A. , Özdemir A., Analysis of critical operating conditions for LV distribution networks with microgrids, Innovative Manufacturing Engineering & Energy International Conference, Imanee 2016, September 23-25, 2016 Kallithea Chalkidiki, Greece., September 2016

İlhan S., İsmailoğlu H., Özdemir A., Design of Corona Rings For 380 kV nonceramic V-Insulator String, 18Th International Symposium On High Voltage Engineering-Ish 2013, 25-30 August 2013, Seoul, Korea, August 2003