

## Prof. MEHMET TÜMAY

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, University of Strathclyde, Electronic & Electrical Engineering, United Kingdom 1991 - 1995

Postgraduate, Gaziantep University, Mühendislik Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 1988 - 1991

Undergraduate, Middle East Technical University, Elektrik-Elektronik Mühendisliği Fakültesi, Turkey 1983 - 1988

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, Simulation of unified power flow controller by using modified power injection model, Gaziantep University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 1991

### Research Areas

Electrical and Electronics Engineering, Energy, Power Electronics, Engineering and Technology

### Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2006 - Continues

Associate Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2000 - 2006

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

- I. **Resonance suppression of LCL filter for shunt active power filter via active damper**  
Buyuk M., TAN A., TÜMAY M.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.134, 2022 (SCI-Expanded)
- II. **An improved and fast balancing algorithm for electric heavy commercial vehicles**  
Erdogan B., Savrun M. M., Koroglu T., CUMA M. U., TÜMAY M.  
JOURNAL OF ENERGY STORAGE, vol.38, 2021 (SCI-Expanded)

- III. **Performance evaluation of phase-shifting transformer for integration of renewable energy sources**  
Sakallioğlu B., Esenboga B., DEMİRDELEN T., TÜMAY M.  
ELECTRICAL ENGINEERING, vol.102, no.4, pp.2025-2039, 2020 (SCI-Expanded)
- IV. **Implementation of a Novel Hybrid UPQC Topology Endowed With an Isolated Bidirectional DC-DC Converter at DC link**  
KÖROĞLU T., TAN A., Savrun M. M., Cuma M. U., BAYINDIR K. Ç., Tumay M.  
IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, vol.8, no.3, pp.2733-2746, 2020 (SCI-Expanded)
- V. **Isolated H-bridge DC-DC converter integrated transformerless DVR for power quality improvement**  
Savrun M. M., Koroglu T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
IET POWER ELECTRONICS, vol.13, no.5, pp.920-926, 2020 (SCI-Expanded)
- VI. **Green touch for hydrogen production via alkaline electrolysis: The semi-flexible PV panels mounted wind turbine design, production and performance analysis**  
DEMİRDELEN T., Ekinci F., Mert B. D., Karasu I., Tumay M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.18, pp.10680-10695, 2020 (SCI-Expanded)
- VII. **Improved instantaneous power theory based current harmonic extraction for unbalanced electrical grid conditions**  
BÜYÜK M., Inci M., TAN A., TÜMAY M.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.177, 2019 (SCI-Expanded)
- VIII. **Butterfly optimization algorithm based maximum power point tracking of photovoltaic systems under partial shading condition**  
Aygül K., Cikan M., Demirdelen T., Tumay M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (SCI-Expanded)
- IX. **Improved adaptive notch filter-based active damping method for shunt active power filter with LCL-filter**  
BÜYÜK M., TAN A., Tumay M.  
ELECTRICAL ENGINEERING, vol.100, no.3, pp.2037-2049, 2018 (SCI-Expanded)
- X. **A review of magnetically controlled shunt reactor for power quality improvement with renewable energy applications**  
Tumay M., DEMİRDELEN T., Bal S., KAYAALP R. İ., DOĞRU B., AKSOY M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.77, pp.215-228, 2017 (SCI-Expanded)
- XI. **Multiple harmonic elimination-based feedback controller for Shunt Hybrid Active Power Filter**  
TAN A., BAYINDIR K. Ç., Cuma M. U., Tumay M.  
IET POWER ELECTRONICS, vol.10, no.8, pp.945-956, 2017 (SCI-Expanded)
- XII. **PERFORMANCE COMPARISON OF VOLTAGE SAG/SWELL DETECTION METHODS IMPLEMENTED IN CUSTOM POWER DEVICES**  
BÜYÜK M., Inci M., TÜMAY M.  
REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, vol.62, no.2, pp.129-133, 2017 (SCI-Expanded)
- XIII. **The performance improvement of dynamic voltage restorer based on bidirectional dc-dc converter**  
Inci M., BAYINDIR K. Ç., TÜMAY M.  
ELECTRICAL ENGINEERING, vol.99, no.1, pp.285-300, 2017 (SCI-Expanded)
- XIV. **Simulation modelling and analysis of modular cascaded multilevel converter based shunt hybrid active power filter for large scale photovoltaic system interconnection**  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
SIMULATION MODELLING PRACTICE AND THEORY, vol.71, pp.27-44, 2017 (SCI-Expanded)
- XV. **Improved Synchronous Reference Frame based controller method for multifunctional compensation**  
Inci M., BAYINDIR K. Ç., TÜMAY M.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.141, pp.500-509, 2016 (SCI-Expanded)
- XVI. **Performance analysis of multiconverter unified power quality conditioner with an EPLL-based controller at medium voltage level**

- KOROGLU T., BAYINDIR K. Ç., TÜMAY M.  
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol.26, no.12, pp.2774-2786, 2016 (SCI-Expanded)
- XVII. **Topologies, generalized designs, passive and active damping methods of switching ripple filters for voltage source inverter: A comprehensive review**  
BÜYÜK M., TAN A., TÜMAY M., BAYINDIR K. Ç.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.62, pp.46-69, 2016 (SCI-Expanded)
- XVIII. **A novel method improvement for detection of voltage problems in dynamic voltage restorers**  
Inci M., BAYINDIR K. Ç., TÜMAY M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.4, pp.997-1006, 2016 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **Experimental Architecture of a DSP Based Signal Generation for PWM Inverter**  
CUMA M. U., TEKE A., TÜMAY M., BAYINDIR K. Ç., OZGUR M. S.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.19, no.3, pp.561-571, 2011 (SCI-Expanded)
- XXIX. **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)
- XXX. **Robust space vector modulation technique for unbalance voltage disturbances**  
Saribulut L., TÜMAY M.

- ELECTRIC POWER SYSTEMS RESEARCH, vol.80, no.11, pp.1364-1374, 2010 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **Extraction of voltage harmonics using multi-layer perceptron neural network**  
TÜMAY M., Meral M. E., BAYINDIR K. Ç.  
NEURAL COMPUTING & APPLICATIONS, vol.17, pp.585-593, 2008 (SCI-Expanded)
- XXXIV. **Hierarchical neuro-fuzzy current control for a shunt active power filter**  
Cagatay Bayindir K., Ugras Cuma M., Tumay M.  
NEURAL COMPUTING & APPLICATIONS, vol.15, pp.223-238, 2006 (SCI-Expanded)
- XXXV. **A novel approach to active power filter control**  
PALANDOKEN M., Tumay M., Aksoy M.  
ELECTRICAL ENGINEERING, vol.87, no.1, pp.33-39, 2005 (SCI-Expanded)
- XXXVI. **Application of fuzzy logic controller to active power filters**  
PALANDOKEN M., Aksoy M., Tumay M.  
ELECTRICAL ENGINEERING, vol.86, no.4, pp.191-198, 2004 (SCI-Expanded)
- XXXVII. **A fuzzy-controlled single-phase active power filter operating with fixed switching frequency for reactive power and current harmonics compensation**  
PALANDOKEN M., Aksoy M., Tumay M.  
ELECTRICAL ENGINEERING, vol.86, no.1, pp.9-16, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design and Analysis of a High-Efficiency Resonant Converter for EV Battery Charger**  
ERDOĞAN B., TAN A., SAVRUN M. M., CUMA M. U., TÜMAY M.  
Balkan Journal of Electrical and Computer Engineering, vol.11, 2023 (Peer-Reviewed Journal)
- II. **Doğrusal Yükleri Besleyen Şebeke Bağlantılı PV/Akü Sisteminin Tasarımı ve Tam/Kısmi Gölgeleme Durumlarında Performans Analizi**  
AYGÜL K., DEMİRDELEN T., TÜMAY M.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.37, no.2, pp.97-111, 2019 (Peer-Reviewed Journal)
- III. **Widespread Artificial Neural Network (ANN) Structures for Current Harmonics Extraction**  
BÜYÜK M., İNCİ M., İBRİKÇİ T., TÜMAY M.  
Journal of Electrical Engineering, vol.18, no.3, pp.363-368, 2018 (Peer-Reviewed Journal)
- IV. **DSP controlled voltage disturbance generator**  
Savrun M. M., TAN A., KOROĞLU T., Cuma M. U., Bayindir K. Ç., Tumay M.  
JOURNAL OF ELECTRICAL SYSTEMS, vol.14, no.1, pp.174-187, 2018 (ESCI)
- V. **MULTIPURPOSE COMPENSATION SCHEME FOR VOLTAGE SAG/SWELL AND SELECTIVE HARMONICS ELIMINATION IN DISTRIBUTION SYSTEMS**  
Inci M., BÜYÜK M., TAN A., Bayindir K. C., TÜMAY M.  
ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol.16, no.1, pp.71-80, 2018 (ESCI)
- VI. **A REVIEW OF CHARGING TECHNOLOGIES FOR COMMERCIAL ELECTRIC VEHICLES**  
DERİCİOĞLU Ç., YİRİK E., ÜNAL E., CUMA M. U., ONUR B., TÜMAY M.  
INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY, vol.2, pp.61-70, 2018 (Peer-Reviewed Journal)
- VII. **1P3S HIGH FREQUENCY TRANSFORMER BASED DUAL-ACTIVE BRIDGE DC-DC CONVERTER**  
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

International Journal of Energy Applications and Technologies, vol.4, no.4, pp.174-181, 2017 (Peer-Reviewed Journal)

- VIII. **DESIGN CONSIDERATIONS OF HIGH VOLTAGE BATTERY PACKS FOR ELECTRIC BUSES**  
CUMA M. U., YİRİK E., DERİCİOĞLU Ç., ÜNAL E., ONUR B., TÜMAY M.  
INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY, vol.1, no.2, pp.73-79, 2017 (Peer-Reviewed Journal)
- IX. **Simulation of Urban Electric Vehicle Transport and Charging Station Implementation at Çukurova University**  
CUMA M. U., CENGİZ A. H., TÜMAY M.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, no.2, pp.343-354, 2016 (Peer-Reviewed Journal)
- X. **Modular Cascaded Multilevel Inverter Based Shunt Hybrid Active Power Filter For Selective Harmonic and Reactive Power Compensation Under Distorted Unbalanced Grid Voltage Conditions**  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
Engineering, Technology Applied Science Research, vol.6, no.5, pp.1133-1138, 2016 (ESCI)
- XI. **Comparison of Different Phase-Shift Control Methods at Isolated Bidirectional DC-DC Converter**  
KAYAALP R. İ., DEMİRDELEN T., KÖROĞLU T., CUMA M. U., Bayındır K. Ç., TÜMAY M.  
INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, ELECTRONICS AND COMPUTERS, vol.4, no.3, pp.68-73, 2016 (Peer-Reviewed Journal)
- XII. **Modeling and Analysis of a Multilevel Parallel Hybrid Active Power Filter**  
DEMİRDELEN T., KAYAALP R. İ., TÜMAY M.  
ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, vol.6, no.3, pp.976-981, 2016 (ESCI)
- XIII. **Modelling and Analysis of Bidirectional DC-DC Converter**  
KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
International Educative Research Foundation and Publisher, 2015 (Peer-Reviewed Journal)
- XIV. **Comparison of Three, Five and Seven Levels Diode Clamped Multilevel Inverter Topologies based Shunt Hybrid Active Power Filter for Harmonics Compensation with Equal DC Link**  
DEMİRDELEN T., İNCİ M., TÜMAY M.  
International Journal of Applied Mathematics, Electronics and Computers (IJAMEC), vol.4, no.1, pp.24-30, 2015 (Peer-Reviewed Journal)
- XV. **Fuzzy Logic Controlled DC-DC Converter Based Dynamic Voltage Restorer**  
İnci M., DEMİRDELEN T., TÜMAY M.  
JOURNAL OF ELECTRICAL SYSTEMS, vol.11, no.4, pp.367-375, 2015 (ESCI)
- XVI. **Performance Analysis of Closed Loop and Open Loop Control Methods in Dynamic Voltage Restorer**  
İNCİ M., DEMİRDELEN T., TÜMAY M.  
International Journal of Engineering Research, vol.11, pp.582-585, 2015 (Peer-Reviewed Journal)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Unified Power Quality Conditioner A Literature Survey**  
TEKE A., TÜMAY M.  
JOURNAL OF ELECTRICAL SYSTEMS, vol.7, no.1, pp.122-130, 2011 (Scopus)
- XXI. **Power Quality Disturbances and Custom Power Devices**  
TEKE A., SARIBULUT L., TÜMAY M.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.26, no.1, pp.57-65, 2011 (Peer-Reviewed

- Journal)
- XXII. **Active Power Filter Review of Converter Topologies and Control Strategies**  
TEKE A., SARIBULUT L., MERAL M. E., TÜMAY M.  
Gazi University Journal of Science, vol.24, no.2, pp.283-289, 2011 (Scopus)
- XXIII. **Güneş Paneli Sistemlerinin Tasarımı**  
KÖROĞLU T., TEKE A., Bayındır K. Ç., TÜMAY M.  
Elektrik Mühendisliği Dergisi, no.439, pp.98-104, 2010 (Peer-Reviewed Journal)
- XXIV. **Dynamic Voltage Restorers A Literature Review**  
TEKE A., MERAL M. E., SARIBULUT L., TÜMAY M.  
Elektrika UTM Journal of Electrical Engineering, vol.12, no.1, pp.7-13, 2010 (Peer-Reviewed Journal)
- XXV. **Elektrik Tesislerinde Enerji Verimliliği**  
MERAL M. E., TEKE A., TÜMAY M.  
Uludağ Üniversitesi, Mühendislik-Mimarlık Fakültesi Dergisi, vol.14, no.1, pp.31-37, 2009 (Peer-Reviewed Journal)
- XXVI. **Türkiye nin Güney Sanayi Bölgelerindeki Güç Kalitesi Üzerine Bir Araştırma**  
TEKE A., MERAL M. E., TÜMAY M., BAYINDIR K. Ç.  
Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.14, no.2, 2009 (Peer-Reviewed Journal)
- XXVII. **Evaluation of Available Power Quality Disturbance Generators for Testing of Power Quality and Mitigation Devices**  
TEKE A., MERAL M. E., TÜMAY M.  
International Journal on Sciences and Techniques of Automatic Control & Computer Engineering, pp.624-635, 2008 (Peer-Reviewed Journal)
- XXVIII. **Sedimentation process in a water treatment system**  
EKER İ., TÜMAY M., Göğüş F.  
Pakistan Journal of Applied Sciences, vol.2, no.6, pp.694-697, 2002 (Peer-Reviewed Journal)
- XXIX. **Modelling of Power System Protection Signalling**  
EKER İ., TÜMAY M., Erçelebi E.  
Journal of Applied Sciences, vol.4, no.2, pp.502-517, 2002 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **A New Balancing Algorithm for Parallel Connected Battery Packs Used in Electric Vehicles**  
CUMA M. U., ERDOĞAN B., Onur B., KÖROĞLU T., SAVRUN M. M., TÜMAY M.  
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Alanya, Antalya, Turkey, 21 - 23 October 2020
- II. **A Fast Simulation Model For Large Scale Battery Packs Used In Heavy Electric Vehicles**  
ERDOĞAN B., SAVRUN M. M., KÖROĞLU T., CUMA M. U., TÜMAY M.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT'19), Ankara, Turkey, 11 - 13 October 2019
- III. **Three-Phase Distribution Transformer Modeling and Electromagnetic Transient Analysis Using ANSYS Maxwell**  
BAL S., DEMİRDELEN T., TÜMAY M.  
ISMSIT 2019, International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 11 - 13 October 2019
- IV. **Lightning Electric Field Analysis of a Transformer Using ANSYS Maxwell**  
BAL S., DEMİRDELEN T., TÜMAY M.  
ISMSIT 2019, International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 11 - 13 October 2019
- V. **Kısmi Gölgeleme Durumundaki Fotovoltaik Panellerin Maksimum Güç Noktası Takibi için Sistem Tasarımı ve Kontrolü**  
AYGÜL K., ESENBOĞA B., EKİNCİ F., DEMİRDELEN T., TÜMAY M.

- XVI. Otomatik Kontrol Seminer ve Sergisi, Adana, Turkey, 24 - 25 April 2019
- VI. **Üç Fazlı Yağlı Tip Transformatörün ANSYS Maxwell ile Modellemesi ve Elektromanyetik Analizi**  
BAL S., DEMİRDELEN T., TÜMAY M.  
XVI. Otomatik Kontrol Seminer ve Sergisi, Adana, Turkey, 24 - 25 April 2019
- VII. **Tek Faz Bir Transformatörün 2B Sonlu Elemanlar Analizi**  
ESENBOĞA B., AYGÜL K., DEMİRDELEN T., TÜMAY M.  
GÜÇ SİSTEMLERİ KONFERANSI, Turkey, 15 - 16 November 2018
- VIII. **Performance Comparison of PI and PIHC controllers for SAPF with LCL filter**  
BÜYÜK M., TAN A., CUMA M. U., TÜMAY M.  
EurasianSciEnTech 2018, 14 - 16 November 2018
- IX. **A Comparative Survey of Battery Energy Storage Systems for Renewable Energy Sources**  
AYGÜL K., ESENBOĞA B., KAYAALP R. İ., DEMİRDELEN T., TÜMAY M.  
IMCOFE 2018, 24 - 26 July 2018
- X. **SPECIAL PURPOSE TRANSFORMERS**  
BAL S., DEMİRDELEN T., TÜMAY M.  
7th International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018
- XI. **3D DRY TYPE TRANSFORMER TECHNOLOGY**  
BAL S., DEMİRDELEN T., TÜMAY M.  
7th International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018
- XII. **SPECIAL PURPOSE TRANSFORMER**  
BAL S., DEMİRDELEN T., TÜMAY M.  
7th International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018
- XIII. **A Study on Design Considerations of Isolated Bi-Directional Dual Active Bridge DC-DC Converter**  
KÖROĞLU T., SAVRUN M. M., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
IV. International Multidisciplinary Congress of Eurasia: Natural Sciences, Engineering and Architecture, IMCOFE'17, Roma, Italy, 23 - 25 August 2017, vol.3, pp.267-273
- XIV. **1P3S High Frequency Transformer Based Dual-Active Bridge DC-DC Converter**  
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
IV. International Multidisciplinary Congress of Eurasia: Natural Sciences, Engineering and Architecture, IMCOFE'17, Roma, Italy, 23 - 25 August 2017, pp.488
- XV. **THE THREE DIMENSIONAL ELECTROMAGNETIC ANALYSIS OF POWER TRANSFORMERS BASED ON ANSYS**  
DEMİRDELEN T., BAL S., TÜMAY M., CUMA M. U., CİCİBAŞ A., KÖSEOĞLU K., AKSOY M.  
ICAT RIGA, 6 International Conference on Advanced Technology Sciences, Riga, Latvia, 12 - 15 September 2017
- XVI. **Comparison of Harmonics at Phase-Shift Controllers of Isolated Bidirectional DC-DC Converter for DCGrid Systems**  
KAYAALP R. İ., DEMİRDELEN T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
6th International Conference on Advanced Technology Sciences, Riga, Latvia, 12 - 15 September 2017
- XVII. **Smart Transformers for Integration of Renewable Energy Sources**  
DEMİRDELEN T., TÜMAY M., BAL S., CUMA M. U., CİCİBAŞ A., KÖSEOĞLU A. K., AKSOY M.  
7th International Symposium on Energy, Manchester, United Kingdom, 13 - 17 August 2017
- XVIII. **COMPARATIVE PERFORMANCE EVALUATION OF MULTI SOGI PLL FOR MINIMUM SETTLING TIME AND LOW UNIT VECTOR DISTORTION UNDER DISTORTED CONDITIONS**  
DEMİRDELEN T., ÖZDEMİR T., TÜMAY M.  
5th International Conference on Advanced Technology Sciences, İstanbul, Turkey, 9 - 12 May 2017
- XIX. **Design Considerations of Power Distribution Control Unit for Electric Buses and Increasing Reliability of the High Voltage Components**  
YIRIK E., DERİCİOĞLU Ç., IRMAK U., ÜNAL E., CUMA M. U., ONUR B., TÜMAY M.  
WELMO'2017, 4 - 05 May 2017
- XX. **Survey of Inverter Topologies Implemented in Dynamic Voltage Restorers**  
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## Non Academic Experience

