

## Personal Information

**Email:** cbayindir@cu.edu.tr

**Web:** <https://avesis.cu.edu.tr//cbayindir>

## International Researcher IDs

ORCID: 0000-0002-9413-5162

Yoksis Researcher ID: 52120

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

- I. **Prediction of Voltage Sag Relative Location with Data-Driven Algorithms in Distribution Grid**  
YALMAN Y., Uyanık T., Atı I., TAN A., BAYINDIR K. Ç., KARAL Ö., Golestan S., Guerrero J. M.  
ENERGIES, vol.15, no.18, 2022 (SCI-Expanded)
- II. **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)
- III. **Modeling and analysis of power quality problems caused by coreless induction melting furnace connected to distribution network**  
TAN A., BAYINDIR K. Ç.  
ELECTRICAL ENGINEERING, vol.96, no.3, pp.239-253, 2014 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Hybrid Fuzzy PI-Control Scheme for Quasi Multi-Pulse Interline Power Flow Controllers Including the P-Q Decoupling Feature**  
Vural A. M., BAYINDIR K. Ç.  
JOURNAL OF POWER ELECTRONICS, vol.12, no.5, pp.787-799, 2012 (SCI-Expanded)
- VII. **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)
- VIII. **A comprehensive overview of hybrid electric vehicle: Powertrain configurations, powertrain control techniques and electronic control units**  
BAYINDIR K. Ç., GOZUKUCUK M. A., TEKE A.  
ENERGY CONVERSION AND MANAGEMENT, vol.52, no.2, pp.1305-1313, 2011 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **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)

- XII. **Fuzzy logic PWM current controller based shunt active power filter for power quality compensation**  
BAYINDIR K. Ç., Tuemay M., CUMA M. U.  
ENGINEERING INTELLIGENT SYSTEMS FOR ELECTRICAL ENGINEERING AND COMMUNICATIONS, vol.16, no.1,  
pp.5-16, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **İki Çıkışlı Flyback Dönüştürücü Tasarımı ve Analizi**  
BEKTAŞ E., BAYINDIR K. Ç., EREL M. Z., YALMAN Y., KIVRAK S.  
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.30, no.3, pp.51-57, 2018 (Peer-Reviewed Journal)
- II. **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)
- III. **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)
- IV. **An Effective Power Quality Compensation System for Power Quality Problems of Current Source Coreless Induction Furnace**  
TAN A., BAYINDIR K. Ç.  
International Review on Modelling and Simulations (IREMOS), vol.2, no.4, pp.1312-1324, 2011 (Scopus)
- V. **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)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis and Design of the Capacitive Power Transfer Applications for Low Power and High Power Cases**  
EREL M. Z., BAYINDIR K. Ç., AYDEMİR M. T.  
The 4th International Conference on Power Electronics and their Applications (ICPEA), 25 - 27 September 2019
- II. **Design and Analysis of a 3.3kW Inductive Power Transfer System**  
EREL M. Z., BAYINDIR K. Ç., AYDEMİR M. T.  
The 4th International Conference on Power Electronics and their Applications (ICPEA), 25 - 27 September 2019
- III. **Novel Single Switch High Gain Non-isolated DC-DC Converter for Building Integrated Photovoltaic Systems**  
ELMAKAWI A., BAYINDIR K. Ç.  
2019 1st Global Power, Energy and Communication Conference (GPECOM), Nevsehir, Turkey, 12 - 15 June 2019
- IV. **Non-isolated Multi-Port Inverter Topologies for Renewable Energy Applications: A review**  
ELMAKAWI A., BAYINDIR K. Ç.  
2019 1st Global Power, Energy and Communication Conference (GPECOM), Nevsehir, Turkey, 12 - 15 June 2019
- V. **Elektrik Dağıtım Sisteminde Gerilim Çukuru Yönü Tespiti ve Arıza Tipi Sınıflandırması**  
YALMAN Y., BAYINDIR K. Ç., ALPER T., KÜRŞAT T., TAŞ Ş.  
Güç Sistemleri Konferansı, Turkey, 15 - 16 November 2018
- VI. **Türkiye Elektrik İletim Şebekesinde Güç Kalitesi Parametrelerinin Yönetmelik ve Standartlar Işığında Yıllara Göre Değerlendirilmesi**  
MANTAŞ C. A., YALMAN Y., TEKŞUT B., BAYINDIR K. Ç.

Güç Sistemleri Konferansı, Turkey, 15 - 16 November 2018

- VII. **The Comparison of Harmonic Minimization and SHE Technique with GA in New 3-Phase Bridgeless Multilevel Inverter**  
BEKTAŞ E., BAYINDIR K. Ç., KARACA H.  
ISMSIT (2nd International Symposium on Multidisciplinary Studies and Innovative Technologies), Ankara, Turkey, 19 - 21 October 2018
- VIII. **Novel Techno-economic Indices for DC-DC Converters Operating Under Variable Load**  
Elmakawi A., BAYINDIR K. Ç.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 19 - 21 October 2018
- IX. **A REVIEW OF BATTERY ENERGY STORAGE APPLICATIONS FOR TRANSMISSION AND DISTRIBUTION GRIDS**  
EREL M. Z., BEKTAŞ E., BAYINDIR K. Ç., YALMAN Y.  
II. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi/II. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018, pp.925-928
- X. **LOW POWER SCALE ELECTRICAL ENERGY STORAGE SYSTEMS: A REVIEW**  
BEKTAŞ E., EREL M. Z., BAYINDIR K. Ç., YALMAN Y.  
II. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi / II. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018, pp.364
- XI. **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
- XII. **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
- XIII. **A New Bridgeless Multilevel Inverter Structure with Reduced Number of Power Switches**  
BEKTAŞ E., BAYINDIR K. Ç., KARACA H.  
10th International Conference on Electrical and Electronics Engineering (ELECO 17), Bursa, Turkey, 30 November - 02 December 2017, pp.300-304
- XIV. **İki Çıkışlı Flyback Dönüştürücü Tasarımı ve Analizi**  
BEKTAŞ E., BAYINDIR K. Ç., EREL M. Z., YALMAN Y., KIVRAK S.  
1.Ulusal Elektrik Enerjisi Dönüşümü Kongresi (EL-EN), Elazığ, Turkey, 21 - 22 September 2017, vol.1, pp.165-170
- XV. **Comparison of Harmonics at Phase-Shift Controllers of Isolated Bidirectional DC-DC Converter for DC Grid 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
- XVI. **Design and Implementation of the Three Phase H-Bridge Motor Drive Controlled by two DC Motors using PID Controller**  
KIVRAK S., EREL M. Z., YALMAN Y., BAYINDIR K. Ç.  
22nd International Conference Mechanika 2017, 19 May 2017
- XVII. **An Overview of Modular Multilevel Converter**  
EREL M. Z., BAYINDIR K. Ç.  
4th International Symposium on Innovative Technologies in Engineering and Science, 3 - 05 October 2016
- XVIII. **Comparison of Different Phase-Shift Control Methods at Isolated Bidirectional DC-DC Converter**  
KAYAALP R. İ., DEMİRDELEN T., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
International Conference on Advanced Technology and Sciences, Antalya, Turkey, 4 - 07 August 2015, pp.273-279
- XIX. **A Novel Low Cost Sag/Swell Generator**  
İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG'2015), Aachen,

Germany, 22 - 25 June 2015, pp.1-4

- XX. **Performance Investigation of Shunt Hybrid Active Power Filter with a Synchronous Reference Frame Based Controller**  
TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-8
- XXI. **A Novel Low Cost Sag/Swell Generator**  
İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-4
- XXII. **Performance Investigation of Shunt Hybrid Active Power Filter with a Synchronous Reference Frame Based Controller**  
TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.  
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-8
- XXIII. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**  
KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-6
- XXIV. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**  
KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-6
- XXV. **Analysis of Power Quality Problems of Coreless Induction Melting Furnace with Exact Simulation Model Based on Field Measurements**  
TAN A., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
4th International Conference on Power Engineering, Energy and Electrical Drives, Adana, Turkey, 13 - 17 May 2013, pp.283-289
- XXVI. **Şebeke Gerilim Değişimlerini Sezme Amaçlı Kontrol Metodlarının İncelenmesi ve Performanslarının Değerlendirilmesi**  
İNCİ M., KÖROĞLU T., TÜMAY M., BAYINDIR K. Ç.  
V.ENERJİ VERİMLİLİĞİ VE KALİTESİ SEMPOZYUMU, Kocaeli, Turkey, 23 - 24 May 2013, pp.180-184
- XXVII. **Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL?lerin Performans Değerlendirmesi**  
DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BÜYÜK M., TERCİYANLI A., BAYINDIR K. Ç., TÜMAY M.  
5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9
- XXVIII. **Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL?lerin Performans Değerlendirmesi**  
DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BÜYÜK M., TERCİYANLI A., BAYINDIR K. Ç., TÜMAY M.  
5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9
- XXIX. **Analysis of Power Quality Problems of Coreless Induction Melting Furnace with Exact Simulation Model Based on Field Measurements**  
TAN A., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
IEEE 4th International Conference on Power Engineering, Energy and Electrical Drives - POWERENG 2013, İstanbul, Turkey, 13 - 17 May 2013, pp.283-289
- XXX. **Analysis of Power Quality Problems of Coreless Induction Melting Furnace with Exact Simulation Model Based on Field Measurements**  
TAN A., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.  
IEEE 4th International Conference on Power Engineering, Energy and Electrical Drives - POWERENG 2013, İstanbul, Turkey, 13 - 17 May 2013, pp.283-289
- XXXI. **Özel Güç Cihazlarının Çoklu Fiderli Sistemlerdeki Uygulamalarının İncelenmesi**  
KÖROĞLU T., TAN A., BAYINDIR K. Ç.  
4. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2011, Kocaeli, Turkey, 12 - 13 May 2011, pp.188-192

- XXXII. **İnternet Tabanlı Elektrik Enerjisi ve Güç Kalitesi İzleme Sistemi**  
TAN A., ŞENSES M. O., MERAL M. E., TEKE A., BAYINDIR K. Ç., TÜMAY M.  
3.Enerji Verimliliği ve Kalitesi Sempozyumu, EVK 2009, Kocaeli, Turkey, 21 - 22 May 2009, pp.286-290
- XXXIII. **PSCAD Modeling of Custom Power Park for Power Quality**  
TÜMAY M., Kaplan A., TEKE A., MERAL M. E., BAYINDIR K. Ç., CUMA M. U., SARIBULUT L.  
5th International Conference on Electrical Engineering, Batna, Algeria, 27 - 29 October 2008, pp.336-341
- XXXIV. **Power Quality Survey on South Industrial Districts of Turkey**  
BAYINDIR K. Ç., TEKE A., YİĞİT İ., MERAL M. E., TÜMAY M., YALÇIN B.  
ICPS'07 International Conference on Power Systems, Bangalore, India, 12 - 14 December 2007
- XXXV. **Experimental Setup for a DSP Based Single Phase PWM Inverter**  
TÜMAY M., BAYINDIR K. Ç., CUMA M. U., TEKE A.  
ELECO 2007, Bursa, Turkey, 5 - 09 December 2007
- XXXVI. **Fuzzy Logic Control of Dynamic Voltage Restorer**  
TÜMAY M., CUMA M. U., TEKE A., BAYINDIR K. Ç.  
ELMA 05, Sofya, Bulgaria, 1 - 03 December 2007
- XXXVII. **Simulation and Modeling of a Dynamic Voltage Restorer**  
TÜMAY M., TEKE A., BAYINDIR K. Ç., CUMA M. U.  
ELECO 2005, Bursa, Turkey, 7 - 11 December 2005, pp.31-35

## **Metrics**

Publication: 54

Citation (WoS): 377

Citation (Scopus): 455

H-Index (WoS): 5

H-Index (Scopus): 5

## **Non Academic Experience**

Erdemir Mühendislik Yönetim ve Danışmanlık Hizmetleri A.Ş.

Sasa DuPont Sabancı Polyester Sanayii A. Ş.

Başarı Elektronik A.Ş.