# Res. Asst. MURAT MUSTAFA SAVRUN

## Personal Information

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**International Researcher IDs**
ORCID: 0000-0001-5847-5082
Yoksis Researcher ID: 56455

## Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği , Turkey 2013 - Continues
Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği , Turkey 2010 - 2013
Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği , Turkey 2005 - 2010

## Foreign Languages

English, C1 Advanced

## Certificates, Courses and Trainings

Education Management and Planning, Endüstriyel Elektrik Eğitimi, Çukurova Üniversitesi, 2010
Education Management and Planning, SCADA, Çukurova Teknik Elemanlar Derneği, 2008
Education Management and Planning, PLC (Programmable Logic Controller), Çukurova Teknik Elemanlar Derneği, 2008
Education Management and Planning, Liderlik, NLP, 2007
Education Management and Planning, Kişisel Gelişim, NLP, 2007
Education Management and Planning, İnsan Kaynakları, İnovasyon ve İletişim Teknikleri, NLP, 2007
Education Management and Planning, Dış Ticaret, NLP, 2007
Education Management and Planning, Satış Pazarlama, NLP, 2007

## Research Areas

Electrical and Electronics Engineering, Power Electronics, Power Quality, Engineering and Technology

## Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - Continues

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

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I. **A new method to estimate the range of electric vehicles without using exact motor parameters**
CUMA M. U., SAVRUN M. M.
INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS, vol.23, no.4, pp.333-349, 2016 (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. **Performance Benchmarking of Active-Front-End Rectifier Topologies Used in High-Power, High-Voltage Onboard EV Chargers**
CUMA M. U., SAVRUN M. M.
Çukurova Üniversitesi Mühendislik Fakültesi Dergisi, vol.36, no.4, pp.1041-1050, 2021 (Peer-Reviewed Journal)

III. **Feeding Electricity Ring Grids with Minimum Interruption Using Fuzzy Logic Based Relay Coordination Scenarios Under Interruption Conditions**
CUMA M. U., SAVRUN M. M., Demiray İ.
Çukurova Üniversitesi Mühendislik-Mimarlik Fakültesi Dergisi, vol.35, no.1, pp.149-158, 2020 (Peer-Reviewed Journal)

IV. **DSP controlled voltage disturbance generator**
Savrun M. M., TAN A., KOROGLU T., Cuma M. U., Bayindir K. Ç., Tumay M.
JOURNAL OF ELECTRICAL SYSTEMS, vol.14, no.1, pp.174-187, 2018 (ESCI)

V. **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)

## Refereed Congress / Symposium Publications in Proceedings

I. **COMPREHENSIVE RESEARCH AND COMPARISON ON REQUIREMENTS, MAIN PARTS, AND AVAILABLE PRODUCTS OF ONBOARD BATTERY CHARGER FOR ELECTRIC VEHICLES**
CUMA M. U., BONCUKÇU A., SAVRUN M. M.
4. INTERNATIONAL ICONTECH SYMPOSIUM ON INNOVATIVE SURVEYS IN POSITIVE SCIENCES, Turkey, 18 July 2021

II. **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

III. **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

IV. **Minimization of Battery Pack Imbalance of Electric Vehicles Using Optimized Balancing Parameters**
SAVRUN M. M., KÖROĞLU T., ÜNAL E., ONUR B., CUMA M. U.
Electric Vehicles International Conference (EV'2019), Bucharest, Romania, 3 - 04 October 2019

V. **Residential Grid Connected Solar PV System Equipped With Battery Storage Units**
SAVRUN M. M., KÖROĞLU T., YİRİK E., CUMA M. U.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech'18), 22 - 23 November 2018, pp.2570-2577

VI. **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

VII. **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

VIII. **Interline hybrid unified power quality conditioner**
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
18th European Conference on Power Electronics and Applications, EPE 2016 ECCE Europe, Karlsruhe, Germany, 5 - 09 September 2016

IX. **Interline Hybrid Unified Power Quality Conditioner**
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
18th European Conference on Power Electronics and Applications (EPE 2016), Karlsruhe, Germany, 5 - 09 September 2016

X. **Interline Hybrid Unified Power Quality Conditioner**
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
18th European Conference on Power Electronics and Applications (EPE 2016), Karlsruhe, Germany, 5 - 09 September 2016

XI. **Design and Implementation of Full Bridge Bidirectional Isolated DC-DC Converter for High Power Applications**
KÖROĞLU T., SAVRUN M. M., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
18th European Conference on Power Electronics and Applications (EPE), Germany, 5 - 09 September 2016

XII. **A New Method to Estimate the Range of Electric Vehicles Without Using Exact Motor Parameters**
SAVRUN M. M., CUMA M. U.
10th Conference on Sustainable Development of Energy, Water and Enviroment Systems, Dubrovnik, Croatia, 27 September - 04 October 2015, vol.2015-0726, pp.1-7

XIII. **Current status and policy of wind energy in Turkey**
Yanıktepe B., SAVRUN M. M., KÖROĞLU T.
Nükleer ve Yenilenebilir Enerji Kaynakları Konferansı NURER 2012, İstanbul, Turkey, 21 - 23 May 2012, pp.1-7

XIV. **Current Status and Policy of Wind Energy in TURKEY**
Yanıktepe B., SAVRUN M. M., KÖROĞLU T.
Nükleer ve Yenilenebilir Enerji Kaynakları Konferansı NURER 2012, İstanbul, Turkey, 20 - 23 May 2012, pp.1-7

XV. **Rüzgar-Güneş Hibrid Güç Sistemi Osmaniye Korkut Ata Üniversitesi Uygulama Örneği**
Yanıktepe B., Özalp C., Savrun M. M., KÖROĞLU T., Cebeci Ç.
6. Uluslararası İleri Teknolojiler Sempozyumu (IATS'11), Elazığ, Turkey, 16 - 18 May 2011

## Supported Projects

CUMA M. U., KÖROĞLU T., SAVRUN M. M., Project Supported by Higher Education Institutions, DA-DA Dönüştürücülü Melez Birleştirilmiş Güç Kalitesi Düzenleyicisinin Tasarımı ve Gerçekleştirilmesi, 2015 - 2016

## Metrics

Publication: 21
Citation (WoS): 4
Citation (Scopus): 7
H-Index (WoS): 1
H-Index (Scopus): 2

## Non Academic Experience

BMA Teknoloji
Solvaytech Mühendislik Sanayi ve Ticaret Limited Şirketi
Siemens Sanayi ve Ticaret A.Ş.