

Prof. BEKİR ÇAKIR

Personal Information

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Education Information

Post Graduate, Technische Universitaet Berlin, Elektrotechnik, Germany 1986 - 1990

Under Graduate, Technische Universitaet Berlin, Elektrotechnik, Germany 1984 - 1986

Associate Degree, Technische Universitaet Berlin, Elektrotechnik, Germany 1982 - 1984

Foreign Languages

German, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektrik Mühendisliği Bölümü, 2006 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2002 - 2006

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 1995 - 2002

Professional Experience

University Executive Board Member, Kocaeli University, 2014 - 2018

Vice Rector, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektrik Mühendisliği Bölümü, 2014 - 2017

Head of Department, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektrik Mühendisliği Bölümü, 2011 - 2015

Rector's Advisor, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektrik Mühendisliği Bölümü, 2012 - 2013

Assistant Director of the Institute, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektrik Mühendisliği Bölümü, 1998 - 2000

Deputy Head of Department, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektrik Mühendisliği Bölümü, 1997 - 1999

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

- **Hybrid global maximum power point tracking approach for photovoltaic power optimisers**
BAŞOĞLU M. E. , ÇAKIR B.
IET RENEWABLE POWER GENERATION, vol.12, pp.875-882, 2018 (Journal Indexed in SCI)
- **COMPARISON OF SINGLE PHASE BUCK-BOOST AND SEPIC LED DRIVER**
ŞEHİRLİ E., ALTINAY M., Üstün Ö., ÇAKIR B.
LIGHT & ENGINEERING, vol.25, pp.92-98, 2017 (Journal Indexed in SCI)
- **A novel voltage-current characteristic based global maximum power point tracking algorithm in**

photovoltaic systems

Basoglu M. E. , ÇAKIR B.

ENERGY, vol.112, pp.153-163, 2016 (Journal Indexed in SCI)

Comparisons of MPPT performances of isolated and non-isolated DC-DC converters by using a new approach

Basoglu M. E. , ÇAKIR B.

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.60, pp.1100-1113, 2016 (Journal Indexed in SCI)

An improved incremental conductance based MPPT approach for PV modules

Basoglu M. E. , ÇAKIR B.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, pp.1687-1697, 2015

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Comparative Switching Characteristics of the ZCZVT PWM Inverters and Reliability Analysis

Nil M., Nil M., Cakir B., Demir M.

INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE, vol.6, pp.139-148, 2011 (Journal Indexed in SCI)

Neuro-PID position controller design for permanent magnet synchronous motor

Bilgin M. Z. , Cakir B.

ADVANCES IN NATURAL COMPUTATION, PT 1, vol.4221, pp.418-426, 2006 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

Fotovoltaik Sistemlerde, Güneş Panellerinin Enerji Profilinin İncelenmesi

KAZDALOĞLU A., ÇAKIR B.

International Multidisciplinary Congress Of Eurasia, 24 - 26 Nisan 2019, pp.251-256

CONTROL OF SPWM APPLIED 15 LEVEL INVERTER WITH ARM PROCESSOR

KAZDALOĞLU A., ÇAKIR B., ERFİDAN T., BİLGİN M. Z.

International Conference on Engineering Technologies, ICENTE'xx18, Konya, Turkey, 26 - 28 Ekim 2018, pp.282-285

A NEW SPWM TECHNIQUE IMPLEMENTED USING A CARRIER SIGNAL FOR MULTI LEVEL INVERTERS

KAZDALOĞLU A., ÇAKIR B.

ICAT'xx18, 7th International Conference on Advanced Technologies, 28 April - 01 May 2018, pp.124-127

CONTROL OF SPWM APPLIED 9 LEVEL INVERTER WITH DSPICE

KAZDALOĞLU A., ÇAKIR B.

ICAT'xx18, 7th International Conference on Advanced Technologies, 28 April - 01 May 2018, pp.128-134

Design And Simulation Of A Maximum Power Point Tracker Using Buck Converter For Photovoltaic System

YASKO M. A. , ÇAKIR B., BİLGİN M. Z. , ERFİDAN T., KAZDALOĞLU A.

International Renewable Energy and Energy Efficiency Congress (GAPYENEV-2018), 10 - 12 May 2018

Improving the Performance of the MPPT for Thermoelectric Generator System by using Kalman Filter

YAHYA K., BİLGİN M. Z. , ERFİDAN T., ÇAKIR B.

ICEEE 2018 5th International Conference on Electrical and Electronic Engineering, 3 - 05 Mayıs 2018

Bilimler ve İlim Kainatta İlahi Oran

KAZDALOĞLU A., ÇAKIR B.

ULUSLARARASI SOSYAL VE İSLAMİ BİLİMLER KONFERANSI, Kocaeli, Turkey, 22 December 2017

A Simple Method to Estimate Power Losses in Distribution Networks

IQTEIT N., BASA ARSOY A., ÇAKIR B.

ELECO 2017, Bursa, Turkey, 30 November - 02 December 2017, pp.135-140

Experimental Evaluations of Global Maximum Power Point Tracking Approaches in Partial Shading Conditions

Basoglu M. E. , ÇAKIR B.

- 17th IEEE International Conference on Environment and Electrical Engineering (IEEE EEEIC) / 1st IEEE Industrial and Commercial Power Systems Europe (IEEE I and CPS Europe), Milan, Italy, 6 - 09 June 2017
- **A new maximum power point tracking approach for decreasing convergence time**
Basoglu M. E. , ÇAKIR B.
IEEE 15th International Conference on Environment and Electrical Engineering (EEEIC), Rome, Italy, 10 - 13 June 2015, pp.172-176
- **Seasonal based energy performance analyzes of Cd-Te and c-Si photovoltaic modules**
BAŞOĞLU M. E. , Kazdaloglu A., ERFİDAN T., BİLGİN M. Z. , ÇAKIR B.
IEEE 15th International Conference on Environment and Electrical Engineering (EEEIC), Rome, Italy, 10 - 13 June 2015, pp.208-212
- **Investigation of solar panel characteristics and MPPT performance under partial shading conditions**
Basoglu M. E. , ÇAKIR B.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.1043-1047
- **Current Controlled SRM fed by Three-phase Voltage Source Converter**
ŞEHİRLİ E., Kuyumcu F. E. , ÇAKIR B.
50th International Universities Power Engineering Conference (UPEC), Stoke-On-Trent, United Kingdom, 1 - 04 September 2015
- **Hardware based comparison of buck-boost converter topologies in MPPT systems**
Basoglu M. E. , ÇAKIR B.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.1109-1112
- **Farklı Güneş Paneli Teknolojilerinin Kocaeli ili için Performans Değerlendirmesi**
BAŞOĞLU M. E. , KAZDALOĞLU A., BİLGİN M. Z. , ERFİDAN T., ÇAKIR B.
ELECO 2014 Elektrik – Elektronik – Bilgisayar ve Biyomedikal Mühendisliği Sempozyumu, Turkey, 27 - 29 November 2014
- **Gerilim Çökmesi Kaynağının Yerini Belirlemede Kullanılan Yöntemlerin İncelenmesi**
KESKİN Y. E. , BASA ARSOY A., ÇAKIR B., TEKDEMİR İ. G.
2013 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 23 - 24 May 2013
- **Design Principles of and Modelling Self-Sufficient Green Houses**
Basoglu M. E. , ÇAKIR B.
1st International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 11 - 14 November 2012
- **Speed Control of Conveyor System by Means of Fuzzy Control Aided PLC**
YILMAZ S., gedik a., DİNÇER H., ÇAKIR B.
The 1999 IEEE International Symposium on Industrial Electronics, Proceedings, 01 Ocak 1999
- **Bulanık Denetim Algoritmalarının PLC Komutlarıyla Gerçekleştirilmesi**
YILMAZ S., DİNÇER H., ÇAKIR B., gedik a.
Elektrik-Elektronik-Bilgisayar Mühendisliği 8. Ulusal Kongresi, Turkey, 01 Ocak 1999
- **AKIM REGÜLELİ İNVERTER İLE SÜRÜLEN SÜREKLİ MIKNATISLI SENKRON MOTORUN YAPAY SİNİR AĞI İLE KONTROLÜ**
BİLGİN M. Z. , ÇAKIR B., ABUT N.
TOK 1998 Otomatik Kontrol Ulusal Toplantısı, Turkey, 15 - 16 Ekim 1998
- **İNDÜKSİYON MOTOR DENETİMİNDE DONANIMSAL VE YAZILIMSAL DGM-MODÜLATÖRÜNÜN UYGULANMASI**
ÇAKIR B., ABUT N., BİLGİN M. Z.
TOK 1998 Otomatik Kontrol Ulusal Toplantısı, Turkey, 15 - 16 Ekim 1998
- **SWITCHED RELUCTANCE MOTOR DRIVE BY USING FUZZY CONTROL**
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IECON'97 23rd International Conference on Industrial Elec., Control and Instrumentation, 9 - 14 Kasım 1997
- **FUZZY CONTROL APPLICATION OF SWITCHED RELUCTANCE MOTOR DRIVE**

ABUT N., ÇAKIR B., İNANÇ N., ertürk n., BİLGİN M. Z.
5th Fuzzy Days, 28 - 30 Nisan 1997

Supported Projects

ÇAKIR B., Project Supported by Higher Education Institutions, KOCAELİ ÜNİVERSİTESİNDE YÜRÜTÜLECEK OLAN VE BAP BİRİMİ TARAFINDAN DESTEKLENEN PROJELERİN ANALİZ EDİLMESİ VE VERİMLİLİĞİNİN ARTIRILMASI İÇİN İSTATİSTİKİ ÇALIŞMA VE VERİ ANALİZİ, 2017 - 2019

ÇAKIR B., Project Supported by Higher Education Institutions, Bölgesel Bazlı Rüzgar ve Fotovoltaik Enerji Tahmini ile Optimum Enerji Yönetimli ve Şebeke Bağlantılı Örnek Ev Modeli ve Uygulaması, 2012 - 2015

ÇAKIR B., Project Supported by Higher Education Institutions, Güneş Enerji Sistemlerinde Kullanılmak Üzere Yeni Bir Üç Fazlı Çok Seviyeli Evirici Tasarımı, 2011 - 2013

Citations

Total Citations (WOS):96

h-index (WOS):5