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KiŐisel Bilgiler

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Eđitim Bilgileri

Doktora, Orta Dođu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliđi Bölümü, Türkiye 1976 - 1982

Yaptıđı Tezler

Doktora, Modelling and Analysis of a Wind Turbine Driven Self-Excited Induction Generator, Orta Dođu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliđi Bölümü, 1982

Akademik Unvanlar / Görevler

Prof.Dr., Orta Dođu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliđi Bölümü, 1974 - Devam Ediyor

Yönetilen Tezler

ERMİŐ M., 400V, 50HZ Őebekeden beslenen 130KW, 750vda iki yönlü darbe genişlik modülasyonlu dođrultucunun tasarımı ve gerçekenmesi, Yüksek Lisans, T.Pul(Öđrenci), 2019

ERMİŐ M., Endüstriye yönelik uygulamalar için bütünüyle sic güç mosfet teknolojisine dayalı üç faz PWM dođrultucu, Yüksek Lisans, C.Yolaçan(Öđrenci), 2019

ERMİŐ M., Őebeke bağlantılı fotovoltaik sistemler için SiC MPPT boost dönüŐtürücü tasarım ve uygulaması, Yüksek Lisans, E.Tuđçe(Öđrenci), 2019

ERMİŐ M., Histeresiz-bant kontrollü melez etkin güç süzgeci: orta-frekans endüksiyon ergitme ocađı uygulaması, Doktora, E.Durna(Öđrenci), 2018

ERMİŐ M., Design and implementation of a three phase grid connected sic solar inverter, Yüksek Lisans, M.CANVER(Öđrenci), 2018

ERMİŐ M., HYSTERESIS BAND CONTROL OF HYBRID ACTIVE POWER FILTER: AN APPLICATION TO A MEDIUM-FREQUENCY INDUCTION MELTING FURNACE, Doktora, E.DURNA(Öđrenci), 2018

ERMİŐ M., GüneŐ uygulamaları için Őebekeye bađlı üç fazlı SiC tabanlı akım kaynaklı evirici tasarımı ve uygulaması, Yüksek Lisans, O.Bay(Öđrenci), 2017

ERMİŐ M., Design and implementation of a SiC based three phase grid connected current source inverter for solar applications, Yüksek Lisans, O.BAY(Öđrenci), 2017

ERMİŐ M., Development of fast and robust spectral decomposition method for nonlinear industrial loads with current frequency spectrum rich in harmonic and interharmonic content, Doktora, E.UZ(Öđrenci), 2016

ERMİŐ M., Design of an interleaved PWM rectifier for AC locomotives and implementation of its laboratory prototype, Yüksek Lisans, M.UđUR(Öđrenci), 2015

ERMİŞ M., Şebekeye bağlı değişken DA bağ gerilimli evirgeçlere parçacık sürü optimizasyonu ile çevrimiçi SDEM uygulanması., Yüksek Lisans, U.Güvengir(Öğrenci), 2014

ERMİŞ M., Online application of SDEM to grid-connected inverters with DC link voltage by particle swarm optimization, Yüksek Lisans, U.GÜVENGİR(Öğrenci), 2014

ERMİŞ M., Elimination of transformer core saturation in cascaded multilevel converter based T-statcom systems, Doktora, C.ÖZGÜR(Öğrenci), 2014

ERMİŞ M., Design and development of a simple power quality monitor for low voltage distribution system, Yüksek Lisans, Ö.YAZLIK(Öğrenci), 2014

ERMİŞ M., Design, implementation and engineering aspects of 12-pulse TCR based SVC systems for voltage regulation, Yüksek Lisans, D.PARLAK(Öğrenci), 2014

ERMİŞ M., Kaskat çok seviyeli çevirgeç tabanlı iletim STATKOM : sistem tasarım yöntemi ve bir 12kV±12MVar güç kati geliştirilmesi, Doktora, B.Gültekin(Öğrenci), 2012

ERMİŞ M., Cascaded multilevel converter based transmission STATCOM: System design methodology and development of a 12kV ±12MVar power-stage, Doktora, B.GÜLTEKİN(Öğrenci), 2012

ERMİŞ M., Adaptive control of DC link current in current source converter based statcom for improving its power losses, Yüksek Lisans, F.KARADUMAN(Öğrenci), 2012

ERMİŞ M., Modeling and design of iron-core shunt reactors with discretely distributed air-gaps, Doktora, A.DÖNÜK(Öğrenci), 2012

ERMİŞ M., Calibration of conventional measurement transformers against harmonic components by using field measurements of optical transducers and resistive-capacitive voltage transformers, Yüksek Lisans, C.AZİZ(Öğrenci), 2010

ERMİŞ M., Flicker source identification at a point of common coupling of the power system, Yüksek Lisans, E.ALTINTAŞ(Öğrenci), 2010

ERMİŞ M., A current source converter based STATCOM for reactive power compensation at low voltage, Yüksek Lisans, N.BİÇER(Öğrenci), 2010

ERMİŞ M., Design and implementation of a current source converter based active power filter for medium voltage applications, Doktora, A.TERCİYANLI(Öğrenci), 2010

ERMİŞ M., Design and implementation of thyristor switched shunt capacitors, Yüksek Lisans, E.UZ(Öğrenci), 2010

ERMİŞ M., A new field-data based EAF (electric arc furnace) model applied to power quality studies, Yüksek Lisans, M.GÖL(Öğrenci), 2009

ERMİŞ M., Güç kalitesi çalışmalarında uygulanmış saha verilerine dayalı yeni bir EAF modeli., Yüksek Lisans, M.Göl(Öğrenci), 2009

ERMİŞ M., Investigation of multilevel inverters for D-statcom applications, Yüksek Lisans, M.DENİZ(Öğrenci), 2009

ERMİŞ M., Design and implementation of a voltage source converter based hybrid active power filter, Yüksek Lisans, O.UÇAK(Öğrenci), 2009

ERMİŞ M., Comparison of various SVC topologies and control strategies for heavy industry, Yüksek Lisans, E.YALVAÇ(Öğrenci), 2009

ERMİŞ M., Design, implementation and engineering aspects of TCR for industrial SVC systems, Doktora, H.BİLGE(Öğrenci), 2008

ERMİŞ M., Optimizing transient and filtering performance of a C-type 2nd harmonic power filter by the use of solid-state switches, Yüksek Lisans, C.ÖZGÜR(Öğrenci), 2007

ERMİŞ M., Design and digital implementation of thyristor controlled reactor control, Yüksek Lisans, M.GENÇ(Öğrenci), 2007

ERMİŞ M., Design and implementation of a current source converter based statcom for reactive power compensation, Doktora, H.FARUK(Öğrenci), 2007

ERMİŞ M., Prediction of hot-spot and top-oil temperatures of power transformers according to IEEE standards C57.110-1998 and C57.91-1995, Yüksek Lisans, H.KARACA(Öğrenci), 2007

ERMİŞ M., Design and implementation of a voltage source converter based statcom for reactive power compensation and harmonic filtering, Doktora, A.ÇETİN(Öğrenci), 2007

ERMİŞ M., Electromagnetic compatibility of electric power quality monitor according to EN 61326 standard, Yüksek Lisans, Ö.YAMAN(Öğrenci), 2007

ERMİŞ M., Fully digital parallel operated switch-mode power supply modules for telecommunications, Doktora, K.KUTLUAY(Öğrenci), 2005

ERMİŞ M., Performance of a dynamic voltage restorer for a practical situation, Yüksek Lisans, G.ÖĞÜZ(Öğrenci), 2004

ERMİŞ M., Design of a reactive power compensation and harmonic filtering system by using field data, Yüksek Lisans, B.GÜLTEKİN(Öğrenci), 2003

ERMİŞ M., Design of a reactive power compensation and harmonic filtering by using field data, Yüksek Lisans, B.Gültekin(Öğrenci), 2003

ERMİŞ M., The Analysis of a dynamic voltage restorer based on load side connected shunt converter topology, Yüksek Lisans, Ç.ACAR(Öğrenci), 2002

ERMİŞ M., The analysis of a dynamic voltage restorer based on load side connected shunt converter topology., Yüksek Lisans, Ç.Acar(Öğrenci), 2002

ERMİŞ M., Investigation of passive and active shunt power filter combination, Yüksek Lisans, Ö.ŞEVİK(Öğrenci), 2002

ERMİŞ M., Brushless dc motor position control for a control actuation system, Yüksek Lisans, A.YILMAZKOÇLAR(Öğrenci), 2002

ERMİŞ M., DSP based implementation of a shunt active power filter with instantaneous reactive power theory, Yüksek Lisans, C.TOKGÖZ(Öğrenci), 2000

ERMİŞ M., Modeling and simulation methods in power electronics and design and simulation of a shunt active power filter using MATLAB/SIMULINK, Yüksek Lisans, K.ÇAĞATAY(Öğrenci), 2000

ERMİŞ M., Design and simulation of single quadrant DC motor drive based on buck type PWM rectifier at unity power factor, Yüksek Lisans, H.FARUK(Öğrenci), 2000

ERMİŞ M., Transient over voltage protection in low voltage power electronic systems: Subject review and case studies, Yüksek Lisans, A.SERKAN(Öğrenci), 1999

ERMİŞ M., Design of reactive power compensator and its filter reactor, Yüksek Lisans, G.ELİŞ(Öğrenci), 1997

ERMİŞ M., Design and implementation of a 20 kw 20 kHz unity power factor boost chopper, Yüksek Lisans, S.VARMA(Öğrenci), 1997

ERMİŞ M., A High power, four quadrant modified for high power DC machines, Yüksek Lisans, A.KOÇ(Öğrenci), 1996

ERMİŞ M., Design and implementation of a medium voltage thyristor controlled reactor, Yüksek Lisans, M.Volkan(Öğrenci), 1996

ERMİŞ M., Design and implementation of a medium voltage thyristor controller reactor, Yüksek Lisans, M.UTALAY(Öğrenci), 1996

ERMİŞ M., A thyristorized induction motor softstarter: Analysis and performance optimization by a hybrid model, Yüksek Lisans, C.BARLAK(Öğrenci), 1996

ERMİŞ M., Performance optimization of an AC arc furnace system, Yüksek Lisans, D.ALPER(Öğrenci), 1996

ERMİŞ M., Steady- state and transient performance analyses of a double output induction generator operating at subsynchronous and supersynchronous speeds, Yüksek Lisans, İ.ÇADIRCI(Öğrenci), 1994

ERMİŞ M., Analysis and implementation of resonant demagnetization forward converter, Yüksek Lisans, B.BİLGİN(Öğrenci), 1994

ERMİŞ M., De 24000 diesel electric locomotive: Simulation of the train dynamics and analysis of the rheostatic braking, Yüksek Lisans, N.BÜKÜLMEZ(Öğrenci), 1993

ERMİŞ M., Thyristor de circuit breaker controlled by a microcomputer, Yüksek Lisans, H.ZENGİNCE(Öğrenci), 1993

ERMİŞ M., A thyristor dc circuit breaker controlled by a microcomputer, Yüksek Lisans, H.Zengince(Öğrenci), 1993

ERMİŞ M., A Solar pumping system with maximum power point tracking, Yüksek Lisans, Ü.ORLU(Öğrenci), 1993

ERMİŞ M., De 24000 diesel electric locomotive: simulation of the Train dynamics and analysis of the rheostatic braking system., Yüksek Lisans, N.Bükülmez(Öğrenci), 1993

ERMİŞ M., Implementation of an autonomous photovoltaic based DC supply with motor generator backup, Yüksek Lisans, L.Sinan(Öğrenci), 1993

ERMİŞ M., Implementation of an autonomous photovoltaic based DC supply with motor generator backup, Yüksek Lisans, L.SİNAN(Öğrenci), 1993

ERMİŞ M., A new method for the analysis of induction through heating of cylindrical work-pieces, Yüksek Lisans, Ö.Tanboga(Öğrenci), 1992

ERMİŞ M., A New method for the analysis of induction through heating of cylindrical work-prices, Yüksek Lisans,

Ö.TANBOĞA(Öğrenci), 1992

ERMİŞ M., A 6-3 KV thyristorized switch for direct-on starting of induction motors, Yüksek Lisans, M.RAHMAN(Öğrenci), 1991

ERMİŞ M., Programmable logic controller-based modernization of a plate normalizing furnace, Yüksek Lisans, N.TUNABOYLU(Öğrenci), 1990

ERMİŞ M., Investigation of battery chargers for telecommunication equipment and design of an automatic gain control unit, Yüksek Lisans, M.ŞEN(Öğrenci), 1989

ERMİŞ M., A Microprocessor based adaptive controller for hybrid solar and wind energy conversion systems, Yüksek Lisans, M.BURSLAN(Öğrenci), 1989

ERMİŞ M., Software development for maximum power transfer in photovoltaic systems, Yüksek Lisans, C.MEKİK(Öğrenci), 1989

ERMİŞ M., An Optimum solar lighting system powered by photovoltaics, Yüksek Lisans, M.BAŞLI(Öğrenci), 1989

ERMİŞ M., An optimum solar lighting system powered by photovoltaics, Yüksek Lisans, M.Başlı(Öğrenci), 1989

ERMİŞ M., The double output induction generator for variable speed applications., Yüksek Lisans, I.ÇADIRCI(Öğrenci), 1988

ERMİŞ M., A DC/DC converter system for maximum power point tracking in small photovoltaic systems, Yüksek Lisans, T.MALERİ(Öğrenci), 1988

ERMİŞ M., The Double output induction generator for variable speed applications, Yüksek Lisans, I.ÇADIRCI(Öğrenci), 1988

ERMİŞ M., Analysis and design of induction heating work coils, Yüksek Lisans, A.EL(Öğrenci), 1988

ERMİŞ M., Implementation of a prototype thyristorized reactive power compensator, Yüksek Lisans, M.PIŞKİN(Öğrenci), 1988

ERMİŞ M., A DC/DC converter system for maximum power point in small photovoltaic systems, Yüksek Lisans, T.Maleri(Öğrenci), 1988

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Full-Scale Physical Simulator of All SiC Traction Motor Drive With Onboard Supercapacitor ESS for Light-Rail Public Transportation**
Yildirim D., Aksit M. H. , Yolacan C., Pul T., Ermis C., Aghdam B. H. , ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.67, sa.8, ss.6290-6301, 2020 (SCI İndekslerine Giren Dergi)
- II. **All SiC PWM rectifier-based off-board ultrafast charger for heavy electric vehicles**
Yildirim D., Ozturk S., ÇADIRCI I., ERMİŞ M.
IET POWER ELECTRONICS, cilt.13, sa.3, ss.483-494, 2020 (SCI İndekslerine Giren Dergi)
- III. **Real-Time Detection of Interharmonics and Harmonics of AC Electric Arc Furnaces on GPU Framework**
Uz-Logoglu E., Salor O., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.55, sa.6, ss.6613-6623, 2019 (SCI İndekslerine Giren Dergi)
- IV. **Operating principles and practical design aspects of all SiC DC/AC/DC converter for MPPT in grid-connected PV supplies**
ÖZTÜRK S., Popos P., Utalay V., Koc A., ERMİŞ M., ÇADIRCI I.
SOLAR ENERGY, cilt.176, ss.380-394, 2018 (SCI İndekslerine Giren Dergi)
- V. **Exponential Smoothing of Multiple Reference Frame Components With GPUs for Real-Time Detection of Time-Varying Harmonics and Interharmonics of EAF Currents**
Balouji E., Salor O., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.54, sa.6, ss.6566-6575, 2018 (SCI İndekslerine Giren Dergi)
- VI. **On-Line Application of SHEM by Particle Swarm Optimization to Grid-Connected, Three-Phase, Two-**

Level VSCs with Variable DC Link Voltage

Guvengir U., ÇADIRCI I., ERMİŞ M.

ELECTRONICS, cilt.7, sa.8, 2018 (SCI İndekslerine Giren Dergi)

- VII. **All SiC Grid-Connected PV Supply with HF Link MPPT Converter: System Design Methodology and Development of a 20 kHz, 25 kVA Prototype**
ÖZTÜRK S., Canver M., ÇADIRCI I., ERMİŞ M.
ELECTRONICS, cilt.7, sa.6, 2018 (SCI İndekslerine Giren Dergi)
- VIII. **Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces**
Hasturk O., ERMİŞ M., Demirci U., Hasirci N., HASIRCI V. N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, cilt.29, sa.5, 2018 (SCI İndekslerine Giren Dergi)
- IX. **Suppression of the Second Harmonic Subgroup Injected by an AC EAF: Design Considerations and Performance Estimation of a Shunt APF**
Durna E., Gercek C. O. , Salor O., ERMİŞ M.
ELECTRONICS, cilt.7, sa.4, 2018 (SCI İndekslerine Giren Dergi)
- X. **Suppression of Time-Varying Interharmonics Produced by Medium-Frequency Induction Melting Furnaces by a HAPF System**
Durna E., Yilmaz I., ERMİŞ M.
IEEE TRANSACTIONS ON POWER ELECTRONICS, cilt.32, sa.2, ss.1030-1043, 2017 (SCI İndekslerine Giren Dergi)
- XI. **Correlation Between Multiple Electric Arc Furnace Operations and Unscheduled Power Flows in the Interconnection Lines at the Eastern Cross Border of ENTSO-E**
Altintas E., Salor O., Buyukdagli U., ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.52, sa.4, ss.3508-3517, 2016 (SCI İndekslerine Giren Dergi)
- XII. **Online Characterization of Interharmonics and Harmonics of AC Electric Arc Furnaces by Multiple Synchronous Reference Frame Analysis**
Uz-Logoglu E., Salor O., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.52, sa.3, ss.2673-2683, 2016 (SCI İndekslerine Giren Dergi)
- XIII. **Design and Implementation of a Hybrid System for the Mitigation of PQ Problems of Medium-Frequency Induction Steel-Melting Furnaces**
Yilmaz I., Durna E., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.52, sa.3, ss.2700-2713, 2016 (SCI İndekslerine Giren Dergi)
- XIV. **Elimination of Coupling Transformer Core Saturation in Cascaded Multilevel Converter-Based T-STATCOM Systems**
Gercek C. O. , ERMİŞ M.
IEEE TRANSACTIONS ON POWER ELECTRONICS, cilt.29, sa.12, ss.6796-6809, 2014 (SCI İndekslerine Giren Dergi)
- XV. **Identification of Harmonic Current Contributions of Iron and Steel Plants Based on Time-Synchronized Field Measurements-Part II: Inside Plants**
Unsar O., Salor O., ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.50, sa.6, ss.4348-4355, 2014 (SCI İndekslerine Giren Dergi)
- XVI. **Identification of Harmonic Current Contributions of Iron and Steel Plants Based on Time-Synchronized Field Measurements-Part I: At PCC**
Unsar O., Salor O., ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.50, sa.6, ss.4336-4347, 2014 (SCI İndekslerine Giren Dergi)
- XVII. **Enhanced Nationwide Wind-Electric Power Monitoring and Forecast System**
Terciyanlı E., Demirci T., Kucuk D., Sarac M., ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, cilt.10, sa.2, ss.1171-1184, 2014 (SCI İndekslerine Giren Dergi)

- XVIII. **Multipurpose Platform for Power System Monitoring and Analysis With Sample Grid Applications**
Atalik T., ÇADIRCI I., Demirci T., ERMİŞ M., İNAN T., Kalaycioglu A. S. , Salor O.
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, cilt.63, sa.3, ss.566-582, 2014 (SCI İndekslerine Giren Dergi)
- XIX. **Cascaded Multilevel Converter-Based Transmission STATCOM: System Design Methodology and Development of a 12 kV +/- 12 MVar Power Stage**
Gultekin B., ERMİŞ M.
IEEE TRANSACTIONS ON POWER ELECTRONICS, cilt.28, sa.11, ss.4930-4950, 2013 (SCI İndekslerine Giren Dergi)
- XX. **Assessment of extensive countrywide electrical power quality measurements through a database architecture**
Kucuk D., Salor O., Guder M., Demirci T., Inan T., Akkaya Y., Cadirci I., ERMİŞ M.
ELECTRICAL ENGINEERING, cilt.95, sa.1, ss.1-19, 2013 (SCI İndekslerine Giren Dergi)
- XXI. **Multi-DSP and -FPGA-Based Fully Digital Control System for Cascaded Multilevel Converters Used in FACTS Applications**
Atalik T., Deniz M., Koc E., Gercek C. O. , Gultekin B., ERMİŞ M., ÇADIRCI I.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, cilt.8, sa.3, ss.511-527, 2012 (SCI İndekslerine Giren Dergi)
- XXII. **Field-Data-Based Modeling of Medium-Frequency Induction Melting Furnaces for Power Quality Studies**
Yilmaz I., Salor O., ERMİŞ M., Cadirci I.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.48, sa.4, ss.1215-1224, 2012 (SCI İndekslerine Giren Dergi)
- XXIII. **A Current Source Converter-Based Active Power Filter for Mitigation of Harmonics at the Interface of Distribution and Transmission Systems**
Terciyanlı A., Avci T., Yilmaz I., Ermis C., Kose K. N. , Acik A., Kalaycioglu A. S. , Akkaya Y., Cadirci I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.48, sa.4, ss.1374-1386, 2012 (SCI İndekslerine Giren Dergi)
- XXIV. **Medium-Frequency Induction Melting Furnace as a Load on the Power System**
Yilmaz I., ERMİŞ M., Cadirci I.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.48, sa.4, ss.1203-1214, 2012 (SCI İndekslerine Giren Dergi)
- XXV. **Effects of Distributed Air-Gaps in the Iron-Core of Shunt Reactors on Inductance Components and Losses**
Donuk A., Bilgin H. F. , ERMİŞ M.
INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE, cilt.7, sa.3, ss.4428-4436, 2012 (SCI İndekslerine Giren Dergi)
- XXVI. **Design and Implementation of a 154-kV +/- 50-Mvar Transmission STATCOM Based on 21-Level Cascaded Multilevel Converter**
Gultekin B., Gercek C. O. , Atalik T., Deniz M., Bicer N., ERMİŞ M., Kose K. N. , Ermis C., Koc E., Cadirci I., et al.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.48, sa.3, ss.1030-1045, 2012 (SCI İndekslerine Giren Dergi)
- XXVII. **Power Quality Solutions for Light Rail Public Transportation Systems Fed by Medium-Voltage Underground Cables**
Terciyanlı A., Acik A., Cetin A., ERMİŞ M., ÇADIRCI I., Ermis C., Demirci T., Bilgin H. F.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.48, sa.3, ss.1017-1029, 2012 (SCI İndekslerine Giren Dergi)
- XXVIII. **Design, Implementation, and Operation of a New C-Type 2nd Harmonic Filter for Electric Arc and Ladle Furnaces**
Gercek C. O. , ERMİŞ M., Ertas A., Kose K. N. , Unsar O.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.47, sa.4, ss.1545-1557, 2011 (SCI İndekslerine Giren Dergi)
- XXIX. **Nationwide real-time monitoring system for electrical quantities and power quality of the electricity**

transmission system

Demirci T., Kalaycioglu A., Kucuk D., Salor O., Guder M., Pakhuylu S., Atalik T., Inan T., Cadirci I., Akkaya Y., et al.
IET GENERATION TRANSMISSION & DISTRIBUTION, cilt.5, sa.5, ss.540-550, 2011 (SCI İndekslerine Giren Dergi)

- XXX. **Current source converter based STATCOM: Operating principles, design and field performance**
Bilgin H. F. , ERMİŞ M.
ELECTRIC POWER SYSTEMS RESEARCH, cilt.81, sa.2, ss.478-487, 2011 (SCI İndekslerine Giren Dergi)
- XXXI. **A Selective Harmonic Amplification Method for Reduction of kVA Rating of Current Source Converters in Shunt Active Power Filters**
Terciyanlı A., ERMİŞ M., Cadirci I.
IEEE TRANSACTIONS ON POWER DELIVERY, cilt.26, sa.1, ss.65-78, 2011 (SCI İndekslerine Giren Dergi)
- XXXII. **Design and Implementation of a Current-Source Converter for Use in Industry Applications of D-STATCOM**
Bilgin H. F. , ERMİŞ M.
IEEE TRANSACTIONS ON POWER ELECTRONICS, cilt.25, sa.8, ss.1943-1957, 2010 (SCI İndekslerine Giren Dergi)
- XXXIII. **An extensible database architecture for nationwide power quality monitoring**
Kucuk D., Inan T., Salor O., Demirci T., Akkaya Y., Buhan S., Boyrazoglu B., Unsar O., Altintas E., Haliloglu B., et al.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, cilt.32, sa.6, ss.559-570, 2010 (SCI İndekslerine Giren Dergi)
- XXXIV. **A New Field-Data-Based EAF Model for Power Quality Studies**
Gol M., Salor O., ALBOYACI B., Mutduer B., ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.46, sa.3, ss.1230-1242, 2010 (SCI İndekslerine Giren Dergi)
- XXXV. **PQONT: A domain ontology for electrical power quality**
Kucuk D., Salor O., Inan T., Cadirci I., ERMİŞ M.
ADVANCED ENGINEERING INFORMATICS, cilt.24, sa.1, ss.84-95, 2010 (SCI İndekslerine Giren Dergi)
- XXXVI. **Electrical Power Quality of Iron and Steel Industry in Turkey**
Salor O., Gultekin B., Buhan S., Boyrazoglu B., Inan T., Atalik T., Acik A., Terciyanlı A., Unsar O., Altintas E., et al.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.46, sa.1, ss.60-80, 2010 (SCI İndekslerine Giren Dergi)
- XXXVII. **VSC-Based D-STATCOM With Selective Harmonic Elimination**
Cetin A., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.45, sa.3, ss.1000-1015, 2009 (SCI İndekslerine Giren Dergi)
- XXXVIII. **Mobile monitoring system to take nationwide PQ measurements on electricity transmission systems**
Salor O., Buhan S., Uensar O., Boyrazoglu B., Altintas E., Atalik T., Haliloglu B., Inan T., Kalaycioglu A., Terciyanlı A., et al.
MEASUREMENT, cilt.42, sa.4, ss.501-515, 2009 (SCI İndekslerine Giren Dergi)
- XXXIX. **Reactive-power compensation of coal mining excavators by using a new-generation STATCOM**
Bilgin H. F. , Ermis M., Kose K. N. , Cadirci I., Acik A., Demirci T., Terciyanlı A., Kocak C., Yorukoglu M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.43, sa.1, ss.97-110, 2007 (SCI İndekslerine Giren Dergi)
- XL. **Understanding the modelling and analysis of a shunt active power filter using MATLAB/Simulink**
Bayindir K. C. , Ermis M.
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, cilt.43, sa.3, ss.185-205, 2006 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Suppression factor as evaluation criterion for wide-frequency filtering equipment**
Durna E., ERMİŞ M.
JOURNAL OF ENGINEERING-JOE, sa.17, ss.3923-3927, 2019 (ESCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Cost Function Determination for a WIG in Predefined Path and Height Using Conjugate Gradient Method**
Shabani R., NALÇACI G., LEBLEBİCİOĞLU M. K. , ERMİŞ M.
6th IEEE International Conference on Control Science and Systems Engineering, ICCSSE 2020, Beijing, Çin, 17 - 19 Temmuz 2020, ss.172-177
- II. **Effect of Grey Wolf Optimization on THD of 3-Phase Voltage Source Inverter with Selective Harmonic Elimination Base**
NALÇACI G., ERMİŞ M.
4th International Conference on Power Electronics and their Applications (ICPEA), Elazığ, Türkiye, 25 - 27 Eylül 2019
- III. **Selective Harmonic Elimination for Three-Phase Voltage Source Inverters Using Whale Optimizer Algorithm**
Nalcaci G., ERMİŞ M.
5th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Türkiye, 3 - 05 Mayıs 2018, ss.1-6
- IV. **Real-Time Detection of Interharmonics and Harmonics of AC Electric Arc Furnaces on GPU Framework**
Uz-Logoglu E., Salor O., ERMİŞ M.
IEEE-Industry-Applications-Society Annual Meeting, Ohio, Amerika Birleşik Devletleri, 1 - 05 Ekim 2017
- V. **Exponential smoothing of multiple reference frame components with GPUs for real-time detection of time-varying harmonics and interharmonics of EAF currents**
Balouji E., SALOR DURNA Ö., ERMİŞ M.
2017 IEEE Industry Applications Society Annual Meeting, Cincinnati, OH, 1 - 05 Ekim 2017
- VI. **Imaging the interactions between oral pathogens and probiotic lactic acid bacteria on the adhesion to human gingival fibroblast cells by confocal and fluorescein microscopy**
AKCA G., Celik I., ERMİŞ M., Foto E.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Türkiye, 3 - 08 Eylül 2016, cilt.283, ss.110-111
- VII. **Correlation Between Multiple Electric Arc Furnace Operations and Unscheduled Power Flows in the Interconnection Lines at the Eastern Cross Border of ENTSO E**
Altıntaş E., SALOR DURNA Ö., Büyükdağlı Ü., ÇADIRCI I., ERMİŞ M.
2015 IEEE Industry Applications Society Annual Meeting, 18 - 22 Ekim 2015
- VIII. **Online characterization of interharmonics and harmonics of AC electric arc furnaces by multiple synchronous reference frame analysis**
UZ LOĞOĞLU E., SALOR Ö., ERMİŞ M.
IEEE, 2015 Industry Applications Society Annual Meeting, 18 - 22 Ekim 2015
- IX. **Design and implementation of a hybrid system for the mitigation of PQ problems of medium frequency induction steel melting furnaces**
YILMAZ İ., DURNA E., ERMİŞ M.
2015 IEEE Industry Applications Society Annual Meeting, 18 - 22 Ekim 2015
- X. **Identification of Harmonic Current Contributions of Iron and Steel Plants Based on Time-Synchronized Field Measurements - Part I: at PCC**
Unsar O., Salor O., ÇADIRCI I., ERMİŞ M.
Annual Meeting of the IEEE-Industry-Applications-Society, Florida, Amerika Birleşik Devletleri, 6 - 11 Ekim 2013
- XI. **Identification of Harmonic Current Contributions of Iron and Steel Plants Based on Time-Synchronized Field Measurements - Part II: Inside Plants**
Unsar O., Salor O., ÇADIRCI I., ERMİŞ M.
Annual Meeting of the IEEE-Industry-Applications-Society, Florida, Amerika Birleşik Devletleri, 6 - 11 Ekim 2013
- XII. **Field-Data-Based Modeling of Medium Frequency Induction Melting Furnaces for Power Quality**

Studies

Yilmaz I., Salor O., ERMİŞ M., ERMİŞ M.

Annual Meeting of the IEEE-Industry-Applications-Society (IAS), Florida, Amerika Birleşik Devletleri, 9 - 13 Ekim 2011

XIII. **Medium Frequency Induction Melting Furnace as a Load on the Power System**

Yilmaz I., ERMİŞ M., ERMİŞ M.

Annual Meeting of the IEEE-Industry-Applications-Society (IAS), Florida, Amerika Birleşik Devletleri, 9 - 13 Ekim 2011

XIV. **Design, Implementation and Operation of a New C-type 2nd Harmonic Filter for Electric Arc and Ladle Furnaces**

Gercek C. O. , ERMİŞ M., Ertas A., Kose K. N. , Unsar O.

Annual Meeting of the IEEE Industry-Applications-Society, Texas, Amerika Birleşik Devletleri, 3 - 07 Ekim 2010

XV. **A New Flicker Contribution Tracing Method Based on Individual Reactive Current Components of Multiple EAFs at PCC**

Altintas E., Salor O., ÇADIRCI I., ERMİŞ M.

44th Annual Meeting of the IEEE-Industry-Applications-Society, Texas, Amerika Birleşik Devletleri, 4 - 08 Ekim 2009, ss.135-136

XVI. **A New Field-Data Based EAF Model for Power Quality Studies**

Goel M., Salor O., Alboyaci B., Mutluer B., Cadirci I., ERMİŞ M.

IEEE Industry-Applications-Society Annual Meeting, Alberta, Kanada, 5 - 09 Ekim 2008, ss.21-22

XVII. **Electrical Power Quality of Iron and Steel Industry in Turkey**

Salor O., Gueltekin B., Buhan S., Boyrazoglu B., Inan T., Atalik T., Acik A., Terciyanlı A., Unsar O., Altintas E., et al.

42nd Annual Meeting of the IEEE-Industry-Applications-Society, Louisiana, Amerika Birleşik Devletleri, 23 - 27 Eylül 2007, ss.404-405

XVIII. **REACTIVE POWER COMPENSATION OF COAL CONVEYOR BELT DRIVES BY USING D-STATCOMS**

Cetin A., Bilgin H. F. , Acik A., Deinirc T., Kose K. N. , Terciyanlı A., Gultekin B., Aksoy N., Mutluer B., Cardirci I., et al.

42nd Annual Meeting of the IEEE-Industry-Applications-Society, Louisiana, Amerika Birleşik Devletleri, 23 - 27 Eylül 2007, ss.1731-1732

XIX. **National PQ monitoring network for Turkish electricity transmission system**

Demirci T., Kalaycioglu A., Salor O., Pakhuylu S., Dagli M., Kara T., Aksueyek H. S. , Topcu C., Polat B., Bilgen S., et al.

24th IEEE Instrumentation and Measurement Technology Conference, Warszawa, Polonya, 1 - 03 Mayıs 2007, ss.2199-2200

XX. **Mobile monitoring system to take PQ snapshots of Turkish electricity transmission system**

Oezdemirci E., Akkaya Y., Boyrazoglu B., Buhan S., Terciyanlı A., Unsar O., Altintas E., Haliloglu B., Acik A., Atalik T., et al.

24th IEEE Instrumentation and Measurement Technology Conference, Warszawa, Polonya, 1 - 03 Mayıs 2007, ss.2181-2182

XXI. **Two-folded implementation of a 12-pulse TCR with dissimilar transformers for a ladle furnace: reactive power compensation and power system redundancy**

KÖSE N., MUTLUER B., ERMİŞ M., TERCİYANLI A., GÜLTEKİN B., BİLGİN F., ERMİŞ C., HASBAY S., KEYİFLİ M., AHİ T.

IEEE 39th IAS Annual Meeting, 2004., 3 - 07 Ekim 2004

Desteklenen Projeler

ERMİŞ M., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ERMİŞ M., Canver M., UĞUR M., Yükseköğretim Kurumları Destekli Proje, SiC Güç Yarı İletkeni Tabanlı Şebekeye Bağlı Fotovoltaik Güç Kaynağı Geliştirme Projesi, 2014 - 2015

ERMİŞ M., Uğur M., Yükseköğretim Kurumları Destekli Proje, Elektrikli Raylı Ulaşım Sistemleri Çekis (Cer) Çevirgeç Sistemi Laboratuvar Prototipinin Gelistirilmesi, 2013 - 2015

ERMİŞ M., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

Patent

ERMİŐ M., Seçili Harmonik Yükseltmeli Akım Kaynaklı Çevirici Tabanlı Aktif Güç Filtresi, Patent, BÖLÜM H Elektrik, İlk Tescil, 2015

Atıflar

Toplam Atıf Sayısı (WOS):937

h-indeksi (WOS):18