

Assoc. Prof. Derya Ahmet Kocabas

Personal Information

Fax Phone: [+90 212 285 6700](tel:+902122856700)

Email: kocabasde@itu.edu.tr

Web: <https://avesis.itu.edu.tr/kocabasde>

Address: İTÜ Elektrik Müh. Böl. 34469 Maslak İSTANBUL

International Researcher IDs

ScholarID: DSPEPEAAAAAJ

ORCID: 0000-0002-5017-5330

Publons / Web Of Science ResearcherID: A-9068-2018

ScopusID: 25927218500

Yoksis Researcher ID: 149512

Education Information

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (Dr), Turkey 1997 - 2005

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1994 - 1997

Undergraduate, İstanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1990 - 1994

Foreign Languages

English

Dissertations

Doctorate, Asenkron makinalarda uzay harmoniklerinin etkilerini azaltmaya katkılar, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (Dr), 2004

Postgraduate, Elektrik makinalarında uzay harmoniklerinin uzay fazörleri ile bilgisayar destekli analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), 1997

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Energy, Direct Energy Conversion and Energy Storage, Renewable energy, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Power Apparatus (transformers,reactors,switchgear,etc.), Power Converters

Academic Titles / Tasks

Assistant Professor, İstanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2018 - Continues

Assistant Professor, İstanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2010 - 2018

Assistant Professor, İstanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2009 - 2010

Lecturer PhD, İstanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2005 - 2009

Research Assistant, İstanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1995 - 2005

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, İstanbul Technical University, Elektrik-Elektronik, 2016 - 2021

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2014 - 2014

İstanbul Teknik Üniversitesi, Rektörlük, Beden Eğitimi Ve Spor Bölümü, 2012 - 2014

Erasmus Program Institutional Coordinator, İstanbul Technical University, 2011 - 2013

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2011 - 2012

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2010 - 2012

İstanbul Teknik Üniversitesi, Rektörlük, Beden Eğitimi Ve Spor Bölümü, 2008 - 2009

Courses

Elektrik Makinaları Laboratuvarı I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A new optimization method for gapped core magnetics in LLC resonance converter LLC rezonans dönüştürücüsündeki hava aralıklı manyetik bileşenler için yeni bir optimizasyon yöntemi**
Lordoğlu A., Gulbahce M. O., Kocabas D. A., Dusmez S.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.1, pp.327-337, 2023 (SCI-Expanded)
- II. **A New Optimization Method for Gapped and Distributed Core Magnetics in LLC Converter**
Lordoglu A., Gülbahçe M. O., Kocabas D. A., Dusmez S.
IEEE Access, vol.11, pp.14061-14072, 2023 (SCI-Expanded)
- III. **Increasing the Performance of High-Speed Solid Rotor Induction Motor by Plunge Type Electrical Discharge Machining**
Gülbahçe M. O., Lordoğlu A., Kocabas D. A.
Advances in Electrical and Computer Engineering, vol.23, no.1, pp.79-86, 2023 (SCI-Expanded)
- IV. **A Holistic Design Optimization Method for LLC Converters in Light Electric Vehicle Chargers**
Lordoğlu A., Gülbahçe M. O., Kocabas D. A., Dusmez S.
IEEE Transactions on Transportation Electrification, 2023 (SCI-Expanded)
- V. **Optimization and Design Considerations of GaN-Based Multi-Level TP PFC Converters**
Bulut E. B., Kocabas D. A., Dusmez S.
IEEE Access, vol.11, pp.47291-47303, 2023 (SCI-Expanded)
- VI. **Extended Overmodulation Operation of Space Vector PWM for Traction Motor Control at Low Switching Frequency**
Altintas G., Kocabas D. A.
IEEE ACCESS, vol.10, pp.120274-120284, 2022 (SCI-Expanded)
- VII. **Contributions to Elimination of Excitation Field Harmonics in Turbogenerators**
Atalay A. K., Kocabas D. A.
Advances in Electrical and Computer Engineering, vol.22, no.4, pp.31-38, 2022 (SCI-Expanded)
- VIII. **Analysis of a GaN based PWM AC-AC converter with an improved switch loss model**
Bulut E. B., Gulbahce M. O., Kocabas D. A.

- AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.131, 2021 (SCI-Expanded)
- IX. **The NTV-SV-PWM method using an improved look-up table for DC-link mid-point balancing applied for ocean wave energy conversion system**
 Colak I., Kocabas D. A.
 International Journal of Robotics and Automation, vol.41, no.4, pp.260-269, 2021 (SCI-Expanded)
- X. **A Comprehensive Disturbing Effect Analysis of Multi-Sectional Rotor Slot Geometry for Induction Machines in Electrical Vehicles**
 Lordoglu A., Gulbahce M. O., Kocabas D. A.
 IEEE ACCESS, vol.9, pp.49590-49600, 2021 (SCI-Expanded)
- XI. **Shielded axially slotted solid rotor design for high-speed solid rotor induction motors**
 Gulbahce M. O., McGuiness D. T., Kocabas D. A.
 IET ELECTRIC POWER APPLICATIONS, vol.12, no.9, pp.1371-1377, 2018 (SCI-Expanded)
- XII. **High-speed solid rotor induction motor design with improved efficiency and decreased harmonic effect**
 Gulbahce M. O., Kocabas D. A.
 IET ELECTRIC POWER APPLICATIONS, vol.12, no.8, pp.1126-1133, 2018 (SCI-Expanded)
- XIII. **A comprehensive approach to determining the speed/torque relationships of eddy current brakes**
 Gulbahce M. O., Kocabas D. A.
 ELECTRICAL ENGINEERING, vol.100, pp.1-9, 2017 (SCI-Expanded)
- XIV. **Novel Winding and Core Design for Maximum Reduction of Harmonic Magnetomotive Force in AC Motors**
 Kocabas D. A.
 IEEE TRANSACTIONS ON MAGNETICS, vol.45, no.2, pp.735-745, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design of a High-Efficiency Micro-Inverter with TO-220 Packaged Gallium Nitride - High-Electron-Mobility Transistors**
 Dayioğlu T., GÜLBAHÇE M. O., LORDOĞLU A., KOCABAŞ D. A.
 Electrica, vol.24, pp.12-24, 2024 (ESCI)
- II. **Generalised Model of Multiphase Tesla's Egg of Columbus and Practical Analysis of 3-Phase Design**
 Gezer A., Gulbahce M. O., Kocabas D. A.
 ELECTRICA, vol.18, no.2, pp.151-158, 2018 (ESCI)
- III. **Microcontroller Based Wye-Delta Starter and Protection Relay for Cage Rotor Induction Motor**
 Gulbahce M. O., Ersoy Yilmaz A., Kocabas D. A.
 ISTANBUL UNIVERSITY - JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.17, no.1, pp.3227-3232, 2017 (Peer-Reviewed Journal)
- IV. **DESIGN, VOLTAGE MODE CONTROL AND NON-IDEAL ANALYSIS OF A LOW VOLTAGE-HIGH CURRENT SYNCHRONOUS BUCK CONVERTER**
 Yildiz B., Altintas G., Gulbahce M. O., Kocabas D. A.
 ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.17, no.2, 2017 (ESCI)
- V. **Farklı Elektrik Motorlarında Tek Bir Sürücü İle Genelleştirilmiş Algılayıcısız Hız Denetimi Ve Uygulaması**
 KOCABAŞ D. A.
 EMO Elektrik Mühendisliği, no.458, pp.42-45, 2016 (Non Peer-Reviewed Journal)
- VI. **Manyetik Yataklı Güneş Motoru Tasarımı ve Aydınlatma Düzeyi – Hız Karakteristiğinin Belirlenmesi**
 Altintas G., Atalay A. K., Kocabas D. A., Gulbahce M. O.
 Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.4, no.3, pp.846-861, 2016 (Peer-Reviewed Journal)
- VII. **Asenkron Makinalarda Uzay Harmoniklerinin Etkilerini Azaltmaya Katkılar**
 KOCABAŞ D. A., MERGEN A. F.

Books & Book Chapters

- I. **Elektrik Makinalarında Sırgular**
KOCABAŞ D. A., MERGEN A. F.
Birsen Yayınevi, İstanbul, 2007
- II. **Elektrik Makineleri IV Doğru Akım Makineleri**
KOCABAŞ D. A., MERGEN A. F.
Birsen Yayınevi, İstanbul, 2007
- III. **Senkron Makineler Çözümlü Problemler**
KOCABAŞ D. A., MERGEN A. F., Gizlier E.
Birsen Yayınevi, İstanbul, 2007
- IV. **Doğru Akım Makineleri Çözümlü Problemler**
MERGEN A. F., KOCABAŞ D. A., Ediz G.
Birsen Yayınevi, İstanbul, 2007

Refereed Congress / Symposium Publications in Proceedings

- I. **Design and Simulation of a Resonant Converter Based EV Charger for ITUEV Team: Design and Simulation of a Resonant Converter Based EV Charger for ITUEV Team**
Alhallak A., ONUR G., KOCABAŞ D. A.
ELECO 2023, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November 2023
- II. **Design and Analysis of a Six-Phase Vienna Rectifier**
DURAN F., KOCABAŞ D. A.
ELECO 2023, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023
- III. **Synchronous Boost Converter Design for an E-Scooter Application and Comparison with Conventional Boost Converter**
Akbaş M. B., KOCABAŞ D. A.
ELECO 2023, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023
- IV. **Space Harmonics Modelling and Analysis of a 3 Phase Asymmetrical Unevenly Chorded Winding**
SOYGENÇ O. C., KOCABAŞ D. A.
ELECO 2023, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023
- V. **An Approach on Thermal Analysis of 3-Phase Squirrel Cage Induction Motor**
Karakuş M., ONUR G., KOCABAŞ D. A.
ELECO 2023, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023
- VI. **A General MMF and Winding Factor Calculation Model for Electrical Machines**
DEVECI H., KOCABAŞ D. A.
ELECO 2023, 14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023
- VII. **Equivalent Circuit Based Design Approach of Axial-Flux Induction Generator for Wind Turbines**
ERGUN B. E., ONUR G., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
2023 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2023 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), İstanbul, Turkey, 1 - 03

September 2023

- VIII. **Design and Simulation of a Resonant Converter Based EV Charger for ITUEV Team**
Alhallak A., Onur G., Kocabas D. A.
14th International Conference on Electrical and Electronics Engineering, ELECO 2023, Virtual, Bursa, Turkey, 30 November - 02 December 2023
- IX. **Maksimum Olabilirlik Tahmini ile Fırçasız Doğru Akım Motorlarının Algılayıcısız Kontrolü**
KAPLAN A. A., GÜLBAHÇE M. O., KOCABAŞ D. A.
Elektrik, Elektronik ve Biyomedikal Mühendisliği Konferansı, ELECO 2022, Bursa, Turkey, 24 - 26 November 2022
- X. **Δ-Δ Sargı Yapısına Sahip Üç Fazlı LLC Rezonans Dönüştürücünün Tasarımı ve Optimizasyonu**
LORDOĞLU A., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
Elektrik, Elektronik ve Biyomedikal Mühendisliği Konferansı, ELECO 2022, Bursa, Turkey, 24 - 26 November 2022
- XI. **LLC Rezonans Dönüştürücünün Parazitik Elemanlarının Dahil Edildiği Yüksek Doğruluklu Benzetim Modeli**
Güngör A. C., LORDOĞLU A., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
Elektrik, Elektronik ve Biyomedikal Mühendisliği Konferansı, ELECO 2022, Bursa, Turkey, 24 - 26 November 2022
- XII. **Design and Optimization of Three-Phase LLC Charger with Δ – Δ Winding Configuration**
LORDOĞLU A., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society, Brussels, Belgium, 17 October 2022
- XIII. **3 Fazlı 2 Seviyeli Evirici Kontrollü SMSM'de SDGM ve UVDGM Teknikleri için Alt Harmonikler ve DA Bileşenlerinin İncelenmesi**
Aslan B. Y., Satılmış O., KOCABAŞ D. A.
ELECO 2022-ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI, Bursa, Turkey, 24 - 26 November 2022
- XIV. **Extended Describing Function Modeling and Closed-Loop Control of LLC Converter in Battery Charging Applications**
Lordoglu A., Gülbahçe M. O., Ahmet Kocabas D. A., Dusmez S.
2021 International Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2021 and 2021 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2021, Brasov, Romania, 2 - 03 September 2021, pp.274-279
- XV. **Simplified Method to Analyze Drive Strengths for GaN Power Devices**
BULUT E. B., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
PCIM Europe digital days 2021; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, 3 - 07 May 2021
- XVI. **Efficiency and Power Density Optimization of Three-Level TP PFC**
BULUT E. B., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
PCIM Europe digital days 2021; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, 3 - 07 May 2021, pp.1-8
- XVII. **Simplified Method to Analyze Drive Strengths for GaN Power Devices**
BULUT E. B., GÜLBAHÇE M. O., Düşmez S., KOCABAŞ D. A.
PCIM Europe 2021, 03 May 2021
- XVIII. **Efficiency and Power Density Optimization of Three-Level Totem Pole PFC**
BULUT E. B., GÜLBAHÇE M. O., KOCABAŞ D. A., Düşmez S.
PCIM Europe 2021, Nuernberg, Germany, 03 May 2021
- XIX. **Analytical modelling and optimization of gapped core magnetics in llc converter**
Lordoglu A., Gülbahçe M. O., Kocabas D. A., Dusmez S.
2021 International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, PCIM Europe 2021, Virtual, Online, 3 - 07 May 2021, vol.2021-May, pp.651-658
- XX. **System-level design approach for llc converters**
Lordoglu A., Gülbahçe M. O., Kocabas D. A., Dusmez S.
2021 International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and

- Energy Management, PCIM Europe 2021, Virtual, Online, 3 - 07 May 2021, vol.2021-May, pp.731-738
- XXI. **A MODIFIED MPPT ALGORITHM FOR PHOTOVOLTAIC SYSTEMS UNDER PARTIAL SHADING**
ALKAN A., Kaydeci A. B., KOCABAŞ D. A., ÇALIK A. T., Günaydin M. B., PARALI U.
V. International Scientific and Vocational Studies Congress – Engineering (BILMES EN 2020), İstanbul, Turkey, 12 December 2020, pp.66-71
- XXII. **DESIGN CRITERIA DISCUSSION OF LI-ION BATTERY PACKAGE AND BATTERY MANAGEMENT SYSTEM FOR A SINGLE-DRIVER PHOTOVOLTAIC POWERED ELECTRICITY CAR**
ÇETİNKAYA A., Uzun E., Kurnaz O., ÇALIK A. T., KOCABAŞ D. A., Günaydin M. B., PARALI U.
V. International Scientific and Vocational Studies Congress – Engineering (BILMES EN 2020), İstanbul, Turkey, 12 December 2020, pp.66-71
- XXIII. **Nonideal analysis and voltage mode control of a synchronous buck converter**
YILDIZ B., Gülbahçe M. O., Kocabaş D. A.
Electrical, Electronics and Biomedical Engineering (ELECO), 2016 National Conference on, İstanbul, Turkey, 1 - 03 December 2017, pp.392-396
- XXIV. **Load sharing analysis of identical wound rotor induction motors driving the same load**
KURT A., ATALAY A. K., KOCABAŞ D. A.
2016 International Automatic Control Conference (CACS), T'ai-chung, Taiwan, 9 - 11 November 2016
- XXV. **Üç Fazlı Asenkron Makinanın Geçici Hal Davranışı için Yenilikçi bir Matematiksel Model Geliştirilmesi**
Yabacı B., ATALAY A. K., KOCABAŞ D. A.
ELECO 2016 Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 1 - 03 December 2016, pp.344-348
- XXVI. **Bir Senkron Alçaltan Çeviricinin İdeal Olmayan Analizi ve Çıkış Geriliminin Kontrolü**
Yıldız B., GÜLBAHÇE M. O., KOCABAŞ D. A.
ELECO 2016, Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 1 - 03 December 2016, pp.392-396
- XXVII. **Nonideal analysis and voltage mode control of a synchronous buck converter Bir senkron alçaltan Çeviricinin ideal olmayan analizi ve çıkış geriliminin kontrolü**
YILDIZ B., Gulbahce M. O., Kocabaş D. A.
2016 National Conference on Electrical, Electronics and Biomedical Engineering, ELECO 2016, Bursa, Turkey, 1 - 03 December 2016, pp.392-396
- XXVIII. **DC Link Balancing of Space Vector Modulation Controlled Three-Level Converter for Ocean Wave Energy Conversion**
Colak I., Kocabaş D. A.
57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, 13 - 14 October 2016
- XXIX. **Nonideal analysis, design and voltage mode control of a boost converter**
Altintas G., Gulbahce M. O., Kocabaş D. A.
57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University, RTUCON 2016, Riga, Latvia, 13 - 14 October 2016
- XXX. **Space vector modulation controlled three level converter for ocean wave energy conversion**
Çolak İ., KOCABAŞ D. A.
2016 18th Mediterranean Electrotechnical Conference (MELECON), Lemesos, Cyprus, 18 - 20 April 2016
- XXXI. **Design and optimization of an axially-slotted high-speed solid rotor induction motor**
OGUZ A. H., Gülbahçe M. O., Kocabaş D. A.
9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.568-573
- XXXII. **Novel rotor design for high-speed solid rotor induction machines**
MCGUINNESS D. T., Gulbahce M. O., Kocabaş D. A.
9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.579-583
- XXXIII. **Design and finite element analysis of a radial-flux salient-pole eddy current brake**

- SINMAZ A., Gulbahce M. O., Kocabas D. A.
9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.590-594
- XXXIV. **Performance Comparison of Different Rotor Types for High Speed Induction Motors**
McGuiness D. T., GÜLBAHÇE M. O., KOCABAŞ D. A.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015
- XXXV. **A performance comparison of different rotor types for high-speed induction motors**
MCGUINESS D. T., Gulbahce M. O., Kocabas D. A.
9th International Conference on Electrical and Electronics Engineering, ELECO 2015, Bursa, Turkey, 26 - 28 November 2015, pp.584-589
- XXXVI. **NTV-SV-PWM controlled three-level converter for ocean wave energy conversion**
İlknur Ç., KOCABAŞ D. A.
2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Lithuania, 14 October 2015
- XXXVII. **Thermal vacuum chamber test of a DC-DC converter**
ULUDAG M., Baş M., Gulbahce M., Kocabas D. A., Aslan A. R.
7th International Conference on Recent Advances in Space Technologies, RAST 2015, İstanbul, Turkey, 16 - 19 June 2015, pp.845-850
- XXXVIII. **Dynamic Simulation of a Load System Driven by Two Equivalent PMDC Motors**
ATALAY A. K., KOCABAŞ D. A., BAŞDOĞAN S.
EPECS 2013-4th International Academic Conference of Young Scientists «Electric Power Engineering and Control Systems 2013», Lviv, Ukraine, 21 - 23 November 2013, pp.94-97
- XXXIX. **Modüler Bantlı Taşıyıcı Bir Sistem Tasarımı ve Bant Hızının Evirici Düzeni ile Kontrolü**
YEKSAN A. Y., ATALAY A. K., KOCABAŞ D. A.
ELECO 2014, Elektrik –Elektronik –Bilgisayar ve Biyomedikal Mühendisliği Sempozyumu, Bursa, Turkey, 27 - 29 November 2014, pp.193-198
- XL. **Uyarma Akımı Kontrollü Girdap Akımı Freni Kullanılan Bir Yük Simülatörü Tasarımı ve Kontrolü**
Gulbahce M. O., Nak H., Kocabas D. A.
Ulusal Otomatik Kontrol Konferansı-TOK-2014, Kocaeli, Turkey, 11 - 13 September 2014, pp.818-823
- XLI. **Investigation of the effect of pole shape on braking torque for a low power eddy current brake by finite elements method**
Gulbahce M. O., Kocabas D. A., NAYMAN F.
8th International Conference on Electrical and Electronics Engineering, ELECO 2013, Bursa, Turkey, 28 - 30 November 2013, pp.263-267
- XLII. **A new approach for temperature rising test of an induction motor loaded by a current controlled eddy current brake**
Gulbahce M. O., Nak H., Kocabas D. A.
2013 3rd International Conference on Electric Power and Energy Conversion Systems, EPECS 2013, İstanbul, Turkey, 2 - 04 October 2013
- XLIII. **Design of a mechanical load simulator having an excitation current controlled eddy current brake**
Gulbahce M. O., Nak H., Kocabas D. A.
2013 3rd International Conference on Electric Power and Energy Conversion Systems, EPECS 2013, İstanbul, Turkey, 2 - 04 October 2013
- XLIV. **Determination of the effect of conductive disk thickness on braking torque for a low power eddy current brake**
Gulbahce M. O., Kocabas D. A., Atalay A. K.
2013 4th International Conference on Power Engineering, Energy and Electrical Drives, POWERENG 2013, İstanbul, Turkey, 13 - 17 May 2013, pp.1272-1276
- XLV. **A study to determine the act of excitation current on braking torque for a low power eddy current brake**

- Gulbahce M. O., Kocabas D. A., Atalay A. K.
2013 IEEE International Electric Machines and Drives Conference, IEMDC 2013, Chicago, IL, United States Of America, 12 - 15 May 2013, pp.1321-1325
- XLVI. **A practical design and analysis of a high power DC to DC converter**
KARADENİZ M., Gulbahce M. O., Kocabas D. A.
15th International Conference on Mechatronics, MECHATRONIKA 2012, Prague, Czech Republic, 5 - 07 December 2012
- XLVII. **Dynamic Simulation of an Induction Motor Having a Dahlander Connected Winding to Calculate the Total Energy Regained in Regenerative Braking**
Kocabas D. A., Atalay A. K., Ogut H. R.
15th International Conference on Mechatronics (Mechatronika), Prague, Czech Republic, 5 - 07 December 2012, pp.247-250
- XLVIII. **Analysis of problems in a load system driven by multiple tandem induction motors**
Atalay A. K., Kocabas D. A., Imeryuz M., Gulbahce M. O.
15th International Conference on Mechatronics, MECHATRONIKA 2012, Prague, Czech Republic, 5 - 07 December 2012
- XLIX. **Finite elements analysis of a small power eddy current brake**
Gulbahce M. O., Kocabas D. A., HABIR I.
15th International Conference on Mechatronics, MECHATRONIKA 2012, Prague, Czech Republic, 5 - 07 December 2012
- L. **Analysis using D-Q transformation of a drive system including load and two identical induction motors**
KOCABAŞ D. A., ATALAY A. K., SALMAN E.
2011 IEEE International Electric Machines Drives Conference (IEMDC), Niagara Falls, ON, Canada, Canada, 15 - 18 May 2011
- LI. **Alfa-Beta Axes Simulation Of A Drive System Driven By Two Equivalent Induction Motors**
KOCABAŞ D. A., ATALAY A. K., SALMAN E., AKÇALI Z.
EEECS-2010-6th International Symposium on Electrical and Electronics Engineering, Lefke, Cyprus (Kktc), 25 - 26 November 2010, pp.21-24
- LII. **Space Harmonic Effect Comparison between a Standard Induction Motor and a Motor with a Novel Winding Arrangement**
Kocabas D. A.
IEEE International Electric Machines and Drives Conference (IEMDC 2009), Florida, United States Of America, 3 - 06 May 2009, pp.65-69
- LIII. **Innovative Design for Maximum MMF Reduction**
KOCABAŞ D. A.
ICEENG 2008-The 6th International Conference on Electrical Engineering, Kahire, Egypt, 27 - 29 May 2008
- LIV. **Maximum MMF Reduction with Newton Raphson Method**
KOCABAŞ D. A.
ICEENG 2008-The 6th International Conference on Electrical Engineering, Kahire, Egypt, 27 - 29 May 2008
- LV. **Performance and Magnetic Analysis of the Novel Stator Structure Compared With a Standard Induction Machine**
Kocabas D. A., Mergen A. F.
IEEE International Symposium on Industrial Electronics, Cambridge, Canada, 30 June - 02 July 2008, pp.1932-1934
- LVI. **A Novel Method to Reduce the Effects of Space Harmonics in Alternating Current Machines**
Kocabas D. A., Mergen A. F.
IEEE International Symposium on Industrial Electronics, Cambridge, Canada, 30 June - 02 July 2008, pp.1926-1927
- LVII. **Comparison of the Torque & Slip Curves for a Standard Squirrel Cage Motor with those of a Motor with a Novel Winding Arrangement**
Kocabas D. A., Mergen A. F.
IEEE International Symposium on Industrial Electronics, Cambridge, Canada, 30 June - 02 July 2008, pp.1938-1940

- LVIII. **Uzay Fazörleri İle Simetrisiz Stator Sargılarında Uzay Harmoniklerinin ve Sargı Faktörünün Bilgisayar Destekli Matrisel Analizi**
KOCABAŞ D. A., MERGEN A. F.
ELECO 2001, Elektrik-Elektronik, Bilgisayar Mühendisliği 9. Ulusal Kongresi, Kocaeli, Turkey, 19 - 23 September 2001, pp.98-101
- LIX. **Çok Fazlı Asimetrik Sargılarda Uzay Harmoniklerinin ve Sargı Faktörünün Matlab Destekli Analizi**
KOCABAŞ D. A., MERGEN A. F.
ELECO 2000, Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 November 2000, pp.99-102

Supported Projects

Kocabaş D. A., Kaplan A. A., Gürer A. M., Peker E. T., Polat F., Onur G., Yazıcı M., Project Supported by Higher Education Institutions, İTUEV Elektromobil Hidromobil ve Shell Eco-Marathon Araçları için Farklı Performansta Batarya Paketlerinin Tasarımı Analizi ve Üretimi, 2024 - Continues

Kocabaş D. A., Lordoğlu A., Gülbahçe M. O., Project Supported by Higher Education Institutions, Tümleşik Manyetik Yapıya Sahip Yüksek Güçlü Yoğunluklu LLC Dönüştürücünün Tasarımı ve Optimizasyonu, 2022 - Continues

Kocabaş D. A., DÜŞMEZ S., Bulut E. B., Project Supported by Higher Education Institutions, Yüksek Güç Yoğunluklu Çok Seviyeli Totem Pole Güç Faktörü Düzeltme Dönüşürücüsünün Tasarımı ve Optimizasyonu, 2022 - Continues

Kocabaş D. A., Project Supported by Higher Education Institutions, Yuvarlak Rotorlu Senkron Generatörlerde Uyarma Alan Şeklinin İyileştirilmesine Katkılar, 2016 - Continues

Kocabaş D. A., Gülbahçe M. O., Lordoğlu A., Project Supported by Higher Education Institutions, Tümleşik Manyetik Yapıya Sahip Yüksek Güç Yoğunluklu LLC Dönüştürücünün Tasarımı ve Optimizasyonu, 2022 - 2024

Kocabaş D. A., DİLİLİR B., Rasim E., YILMAZ H., KARABULUT F., Kaplan A. A., PEKER E. T., Onur G., Project Supported by Higher Education Institutions, İTÜ Elektrikli Araç Takımı İçin Yerleşik Şarj Birimi Modülünün Geliştirilmesi Ve Gerçeklenmesi, 2023 - 2023

Kocabaş D. A., HATİP M., Kaplan A. A., VARLI M. E., DİLİLİR B., Project Supported by Higher Education Institutions, İTÜ Elektrikli Araç Takımı için Batarya Yönetim Sistemi Modüllerinin Geliştirilmesi ve Gerçeklenmesi, 2021 - 2023

Gülbahçe M. O., Kocabaş D. A., Düşmez S., TUBITAK Project, Bidirectional AC/DC Converters 10kW with Best-in Class Power Density, 2020 - 2023

Kocabaş D. A., Ercan M., Project Supported by Higher Education Institutions, 36 STATOR OLUKLU, 2 KUTUPLU UZAY HARMONİK ETKİSİ AZALTILMIŞ ASENKRON MAKİNA BAŞARIMINDA ROTOR OLUK SAYISI ETKİSİNİN TESPİTİ, 2022 - 2022

Kocabaş D. A., Project Supported by Higher Education Institutions, Sürekli Miknatılı Senkron Motorda Algılayıcısız Kontrol Yöntemini Geliştirmeye Katkılar, 2016 - 2021

Kocabaş D. A., Gülbahçe M. O., Project Supported by Higher Education Institutions, Yüksek Hızlı Kütlesel Rotorlu Asenkron Motorlarda Verim Artışına Katkılar, 2016 - 2021

Kocabaş D. A., Project Supported by Higher Education Institutions, Devri Daim Pompaları için Fırçasız Doğru Akım Motoru Tasarımı, 2012 - 2021

Kocabaş D. A., Project Supported by Higher Education Institutions, SENKRON ALÇALTAN DOĞRU AKIM ÇEVİRİCİNİN PI VE BULANIK PI KONTROLÜNÜN KARŞILAŞTIRILMASI, 2017 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, Okyanus Dalga Enerjisi Dönüşümü için Uzay Vektör Modülasyonu Kontrollü 3 Seviyeli Çeviricinin DG Bara Kontrolü, 2016 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, OKYANUS DALGA ENERJİSİNE DÖNÜŞTÜRÜLMESİ İÇİN 3 SEVİYELİ ÇEVİRİCİ TASARIMI, 2015 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, Küçük Güçlü Bir Girdap Akımı Freninde İletken Disk Kalınlığı Etkisinin Elde Edilmesi, 2013 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, Yüksek Güçlü Bir Anahtarlamalı güç Kaynağının Uygulamalı Tasarımı ve İncelemesi, 2012 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, İKİ ÖZDEŞ KAFESLİ ASENKRON MOTOR TARAFINDAN

SÜRÜLEN BİR YÜK SİSTEMİNİN ?-b DÖNÜŞÜMÜ İLE BENZETİMİ, 2010 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, Standart Bir Asenkron Motor ile Sıradışı Srglı Yeni Motorun Uzay Harmonik Etkilerinin Karşılatılması, 2009 - 2018

Kocabaş D. A., Project Supported by Higher Education Institutions, Asenkron Makinelerde Uzay Harmoniklerinin Etkilerinin Araştırılması ve Azaltılması İçin Çözüm Önerileri, 2008 - 2018

Kocabaş D. A., TUBITAK Project, ELEKTRİK MAKINALARININ DENETİMİ İÇİN GENEL AMAÇLI BIR SÜRÜCÜ SİSTEMİNİN TASARIMI VEGERÇEKLENMESİ, 2015 - 2016

Kocabaş D. A., Project Supported by Higher Education Institutions, Üç Fazlı Doğrudan Darbe Genişlik Modülasyonlu Alternatif Akım Kiyıcı Tasarımı ve Gerçeklemesi, 2015 - 2015

Kocabaş D. A., TUBITAK Project, Mühendislik Plastiği ve Alüminyum Alaşımı Malzeme Esası Yenilikçi Yüksek Devirli Elektrik Motoru Tasarımlarının Geliştirilmesi, 2014 - 2015

Kocabaş D. A., Project Supported by Higher Education Institutions, Değişken Kuvvetli Manyetik Ayırıcı Tasarımı, 2012 - 2015

Kocabaş D. A., Project Supported by Higher Education Institutions, Görüntü Algılayıcı ve Lazer Göstericili Hedef Takip Sisteminin Elektrik Motorları İle 3 Boyutlu Kontrolü, 2011 - 2015

Kocabaş D. A., TUBITAK Project, Küçük Güçlü Bir Girdap Akımı Freni Tasarımı ve Gerçeklenmesi, 2013 - 2014

Kocabaş D. A., Project Supported by Higher Education Institutions, Orta Güçlü Foucault ve histerizis Freni Tasarımı, 2011 - 2014

Kocabaş D. A., Project Supported by Other Private Institutions, Yarım Köprü Seri Rezonans Endüksiyon Ocağı Güç Kontrolü İçin Kart Tasarımı ve Yazılım Geliştirilmesi, 2012 - 2013

Kocabaş D. A., TUBITAK Project, Tam Otomatik Elektrik Dirençli Dinamik Isıtmalı Sac Presleme Sistemi Ar Ge Projesi, 2012 - 2012

Patent

Kocabaş D. A., BATARYA PAKETLERİ İÇİN BİR KISA DEVRE KORUMA SİSTEMİ, Patent, CHAPTER H Electricity, Standard Registration, 2022

Gülbahçe M. O., Kocabaş D. A., Mcguiness D. T., YÜKSEK HIZLI KÜTLESEL ROTORLU ASENKRON MOTORLAR İÇİN TAHİRİK BAŞARIMINI ARTIRAN BİR ROTOR KAPLAMA, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: TR201618854B , Standard Registration, 2019

Metrics

Publication: 84

Citation (WoS): 33

Citation (Scopus): 164

H-Index (WoS): 3

H-Index (Scopus): 7

Non Academic Experience

WAT Motor Sanayi ve Ticaret A.Ş.

Northel Elektromekanik A.Ş.

Balkan Motor Sanayi ve Ticaret A.Ş

Magma Mekatronik Makine San.Tic.A.Ş

Loughborough University