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Kişisel Bilgiler

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Posta Adresi: Üniversiteler Mahallesi ODTÜ Elektrik Elektronik Mühendisliği Bölümü 06800 Çankaya/Ankara

Yabancı Diller

Almanca, C1 İleri

Yaptığı Tezler

Doktora, Performance analysis of brushless DC machines with axially displaceable rotor, Universitaet Hannover, 2014
Yüksek Lisans, Modelling and testing of a brushless DC machine drive for automobile propulsion applications, Rheinisch-Westfaelische Technische Hochschule Aachen, 2010

Araştırma Alanları

Elektrik Makineleri Kuramı ve Tasarımı, Elektrik Motoru Sürücüleri

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2018 - Devam Ediyor

Mesleki Deneyim

Bölüm Başkan Danışmanı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2019 - Devam Ediyor

Verdiği Dersler

Electromechanical Energy Conversion II, Lisans, 2019 - 2020

Utilization of Electric Energy, Lisans, 2018 - 2019, 2019 - 2020

Electromechanical Energy Conversion I, Lisans, 2018 - 2019, 2019 - 2020, 2020 - 2021

Electric Drives in Electric and Hybrid Electric Vehicles, Yüksek Lisans, 2018 - 2019

Yönetilen Tezler

Bostancı E., Design, analysis and implementation of a 50 W wireless charger of a charging vest battery, Yüksek Lisans,

M.EREN(Öğrenci), 2020

Bostancı E., Performance and Thermal Reliability Comparisons of 2-Level and 3-Level NPC Voltage Source Inverters for Electric Vehicle Drive Applications, Yüksek Lisans, A.Madan(Öğrenci), 2019

Tasarladığı Dersler

Bostancı E., Electric Drives in Electric and Hybrid Electric Vehicles , Yüksek Lisans, 2018 - 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A Stray Magnetic Flux-Based Robust Diagnosis Method for Detection and Location of Interturn Short Circuit Fault in PMSM**
Gurusamy V., Bostancı E., Li C., Qi Y., Akin B.
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, cilt.70, 2021 (SCI İndekslerine Giren Dergi)
- II. **Severity Estimation of Interturn Short Circuit Fault for PMSM**
Qi Y., Bostancı E., Zafarani M., Akin B.
IEEE Transactions on Industrial Electronics, cilt.66, ss.7260-7269, 2019 (SCI İndekslerine Giren Dergi)
- III. **Interturn short-circuit faults in permanent magnet synchronous machines: An extended review and comprehensive analysis**
Zafarani M., Bostancı E., Qi Y., Göktaş T., Akin B.
IEEE Journal of Emerging and Selected Topics in Power Electronics, cilt.6, ss.2173-2191, 2018 (SCI İndekslerine Giren Dergi)
- IV. **Comprehensive Report on Design and Development of a 100-kW DSSRM**
Maharjan L., Bostancı E., Wang S., Cosoroaba E., Cai W., Yi F., Shamsi P., Wang W., Gu L., Luo M., et al.
IEEE Transactions on Transportation Electrification, cilt.4, ss.835-856, 2018 (SCI İndekslerine Giren Dergi)
- V. **A Comprehensive Analysis of Short-Circuit Current Behavior in PMSM Interturn Short-Circuit Faults**
Qi Y., Bostancı E., Gurusamy V., Akin B.
IEEE Transactions on Power Electronics, cilt.33, ss.10784-10793, 2018 (SCI İndekslerine Giren Dergi)
- VI. **Comparison of winding configurations in double-stator switched reluctance machines**
Cosoroaba E., Bostancı E., Li Y., Wang W., Fahimi B.
IET Electric Power Applications, cilt.11, sa.8, ss.1407-1415, 2017 (SCI İndekslerine Giren Dergi)
- VII. **Opportunities and Challenges of Switched Reluctance Motor Drives for Electric Propulsion: A Comparative Study**
Bostancı E., Moallem M., Parsapour A., Fahimi B.
IEEE Transactions on Transportation Electrification, cilt.3, ss.58-75, 2017 (SCI İndekslerine Giren Dergi)
- VIII. **Influence of Phase Magnetic Couplings on Phase Current Characteristics of Multiphase BLDC Machines with Overlapping Phase Windings**
Bostancı E., Neuschl Z., Plikat R.
IEEE Transactions on Magnetics, cilt.51, 2015 (SCI İndekslerine Giren Dergi)
- IX. **Optimum design of a fuel-cell powertrain based on multiple design criteria**
Sarioglu I. L. , Czapnik B., Bostancı E., Klein O. P. , Schröder H., Küçükay F.
Journal of Power Sources, cilt.266, ss.7-21, 2014 (SCI İndekslerine Giren Dergi)
- X. **No-load performance analysis of brushless DC machines with axially displaceable rotor**
Bostancı E., Neuschl Z., Plikat R., Ponick B.
IEEE Transactions on Industrial Electronics, cilt.61, ss.1692-1699, 2014 (SCI İndekslerine Giren Dergi)

- I. **Effects of Rotor Flux Barrier Design on Torque Ripple and High Speed Performance of Synchronous Reluctance Machines**
Yılmaz Y. B. , Bostancı E.
2020 International Conference on Electrical Machines (ICEM), Gothenburg, İsveç, 23 - 26 Ağustos 2020, ss.448-454
- II. **Comparison of Two-Level and Three-Level NPC Inverter Topologies for a PMSM Drive for Electric Vehicle Applications**
Madan A., Bostancı E.
International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), İstanbul, Türkiye, 27 - 29 Ağustos 2019, ss.147-154
- III. **Field Weakening Methods for Axially Displaceable Brushless DC Machines**
Bostancı E.
23rd International Conference on Electrical Machines, ICEM 2018, Alexandroupoli, Yunanistan, 3 - 06 Eylül 2018, ss.2171-2177
- IV. **Optimal design of synchronous reluctance machines**
Kiani M., Bostancı E., Fahimi B.
43rd Annual Conference of the IEEE Industrial Electronics Society, IECON 2017, Beijing, Çin, 29 Ekim - 01 Kasım 2017, ss.3749-3753
- V. **On the proximity effects of high-energy magnets on M-19 magnetic steel core**
Jayasankar S., Maharjan L., Cosoroaba E., Bostancı E., Fahimi B.
2017 IEEE International Electric Machines and Drives Conference, IEMDC 2017, Florida, Amerika Birleşik Devletleri, 21 - 24 Mayıs 2017
- VI. **Thermal analysis of switched reluctance motor with direct in-winding cooling system**
Rahman N. A. , Bostancı E., Fahimi B.
17th Biennial IEEE Conference on Electromagnetic Field Computation, IEEE CEFC 2016, Florida, Amerika Birleşik Devletleri, 13 - 16 Kasım 2016
- VII. **Temperature estimation of switched reluctance machines using thermal impulse response technique**
Rahman N. A. , Gu L., Bostancı E., Fahimi B.
17th Biennial IEEE Conference on Electromagnetic Field Computation, IEEE CEFC 2016, Florida, Amerika Birleşik Devletleri, 13 - 16 Kasım 2016
- VIII. **Performance improvement and comparison of concentrated winding segmental rotor and double stator switched reluctance machines**
Bostancı E., Gu L., Cosoroaba E., Moallem M., Fahimi B.
17th Biennial IEEE Conference on Electromagnetic Field Computation, IEEE CEFC 2016, Florida, Amerika Birleşik Devletleri, 13 - 16 Kasım 2016
- IX. **Analytical calculation of the electromagnetic field in SRM using conformal mapping method**
Gu L., Bostancı E., Moallem M., Wang S., Devendra P.
2016 IEEE Transportation Electrification Conference and Expo, ITEC 2016, Michigan, Amerika Birleşik Devletleri, 27 - 29 Haziran 2016
- X. **Extended field reconstruction method for modeling of interior permanent magnet synchronous machines**
Gu L., Moallem M., Bostancı E., Wang S., Devendra P.
2016 IEEE Transportation Electrification Conference and Expo, ITEC 2016, Michigan, Amerika Birleşik Devletleri, 27 - 29 Haziran 2016

Akademik Dolaşım Faaliyetleri

Diğer, Misafir Araştırmacı, University of Windsor, Kanada, 2019 - 2019

Atıflar

Toplam Atıf Sayısı (WOS):191

h-indeksi (WOS):6