

Prof. Dr. EROL KURT

Kişisel Bilgiler

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Biyografi

Prof. Dr. Erol KURT took his M. Sc. degree from the Inst. Science & Technology, Gazi University in Ankara, Turkey in 2001. He was awarded by an European Graduate College Grant during his Ph. D study at the Inst. Physics & Math., Bayreuth University in Germany. He completed his Ph. D. degree in 2004 on the instabilities of rotating magnetic fluids and worked at Turkish Atomic Energy Authority R&D Department for 3 years. He was assigned to the position of Assoc. Prof. at Technology Faculty, Gazi University. His main research areas include nonlinear phenomena in electrical/electronic circuits, electric machine design, mechanical vibrations, chaos, plasmas and magneto hydrodynamics. He is founder chairman to serial conferences, namely European Conference on Renewable Energy Systems (ECRES), Interdisciplinary Conference on Mechanics, Computers and Electrics (ICMECE) and the guest editor for some reputable journals. He is the Owner and Editor-in-Chief to Journal of Energy Systems (dergipark.org.tr/jes) and the member of Turkish Science Research Foundation (TUBAV).

Eğitim Bilgileri

Doktora, Universitaet Bayreuth, Physik und Mathematik, Almanya 2001 - 2004

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1998 - 2001

Lisans, Gazi Üniversitesi, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Türkiye 1994 - 1998

Yabancı Diller

İngilizce, C1 İleri

Almanca, A2 Temel

Yaptığı Tezler

Doktora, Patern formation in rotating fluid systems under the influence of magnetic fields, Universitat Bayreuth, Fizik, 2004

Yüksek Lisans, Fe-8.62Mn-5.52Cu alaşımında austenite-martensite faz dönüşümünün kristalografik ve kinetik özellikleri, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, 2001

Araştırma Alanları

Elektromanyetik, MEMS, Gazlar, Plazmalar ve Elektriksel Boşalmalar Fiziği, Nükleer mühendislik ve nükleer enerji çalışmaları

Akademik Unvanlar / Görevler

Prof. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2013 - Devam Ediyor

Doç. Dr., Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2011 - 2013

Araştırma Görevlisi, Universitaet Bayreuth, Faculty Of Physics And Informatics, Physics, 2001 - 2004

Araştırma Görevlisi, Gazi Üniversitesi, Fen Fakültesi, Fizik, 1999 - 2001

Akademik İdari Deneyim

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - Devam Ediyor

Erasmus Koordinatörü, Gazi Üniversitesi, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - 2021

Birim Kalite Komisyonu Üyesi, Gazi Üniversitesi, 2019 - 2019

Bölüm Başkan Yardımcısı, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2011 - 2012

Verdiği Dersler

Elektromanyetik Alanların Bilgisayar Destekli Analizi, Doktora, 2017 - 2018

ELEKTROMANYETİK ALAN TEORİSİ, Lisans, 2017 - 2018, 2016 - 2017

Mezuniyet Tezi, Lisans, 2016 - 2017

Elektrik Devrelerinde Kaos, Yüksek Lisans, 2016 - 2017

Yönetilen Tezler

Kurt E., BİR PİEZOELEKTRİK RÜZGÂR ENERJİSİ HASATÇISI TASARIMI VE UYGULAMASI, Yüksek Lisans, A.CEM(Öğrenci), 2021

Kurt E., ÇOKLU FREKANSLI HİBRİT ENERJİ HARMANLAYICI TASARIMI VE UYGULAMASI, Doktora, K.ÇELİK(Öğrenci), 2021

Kurt E., YENİ BİR MAGNETRON TASARIMI VE UYGULAMASI, Yüksek Lisans, Y.YILDIZ(Öğrenci), 2021

İLBAŞ M., KURT E., Üç fazlı sürekli mıknatıslı bir jeneratörde ısı transferinin sayısal ve deneysel olarak araştırılması, Doktora, M.DEMİRCİ(Öğrenci), 2020

KURT E., Yeni bir yoğunlaştırıcı güneş enerjisi sistemi tasarımı ve stirling motor ve jeneratör birimlerinin uygulaması, Doktora, S.ALARABIA(Öğrenci), 2019

KURT E., Yeni bir piezoelektrik rüzgar enerjisi hasatçısı tasarımı ve uygulaması, Doktora, D.ÖZHAN(Öğrenci), 2019

KURT E., Güvenli veri iletimi için değiştirilmiş chua devresi yardımıyla tasarlanan renkli görüntü şifreleme sistemi uygulaması, Yüksek Lisans, B.ARPACI(Öğrenci), 2019

KURT E., Bir direnç-iki bobin-iki diyotlu kaotik devre aracılığıyla güvenli imge iletişiminin araştırılması, Doktora, K.MOHAMED(Öğrenci), 2018

KURT E., R2L2D devresinde kaos, eşzamanlılık ve güvenli haberleşmenin araştırılması, Yüksek Lisans, C.BİNGÖL(Öğrenci), 2016

KURT E., Rotoru nüveli, eksenel ve radyal akili, kalıcı mıknatıslı yeni bir jeneratör tasarımı, Yüksek Lisans, U.DÖNER(Öğrenci), 2016

KURT E., Durağan elektrostatik hapsedme füzyon reaktörü tasarımı ve iyon davranışlarının belirlenmesi, Yüksek Lisans, B.DURSUN(Öğrenci), 2014

KURT E., Eksenel akıllı jeneratörlerin tasarımı ve uygulaması, Doktora, H.GÖR(Öğrenci), 2014

KURT E., Periyodik manyetik alanlar etkisinde doğrusal olmayan titreşimlerden elektrik enerjisi üretimi, Doktora, Y.UZUN(Öğrenci), 2012

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Gazi Üniversitesi, Kasım, 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Implementation of heat transfer techniques for an axial flux permanent magnet generator design**
Kurt E., Demirci M., İlbaş M.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, cilt.238, sa.6, ss.1063-1083, 2024 (SCI-Expanded)
- II. **Computational Modeling of a 2D Vanadium Redox Flow Battery Cell**
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JOM, cilt.76, sa.1, ss.130-140, 2024 (SCI-Expanded)
- III. **A wide-band electromagnetic energy harvester**
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- IV. **2D PIV/PTV-3D uRANS RSM Investigation on the Combined Effect of Iron Filings Filtering Techniques in a Backward Facing Step Flow**
Villén I., Teso D., Martínez-Filgueira P., Fernandez-Gámiz U., Márquez G., Lopez-Guede J. M., KURT E.
JOM, cilt.75, sa.3, ss.759-779, 2023 (SCI-Expanded)
- V. **Design and Implementation of a MHz Frequency Transformer with a Ferromagnetic Fluid Core**
KURT E., Hatem S.
Sustainability (Switzerland), cilt.15, sa.1, 2023 (SCI-Expanded)
- VI. **Feasibility analysis of solar photovoltaics for the feeding of cooling pump of a natural gas power plant**
Terzi R., KURT E.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, cilt.236, sa.8, ss.1650-1659, 2022 (SCI-Expanded)
- VII. **Design and implementation of a X Band 9 GHz cavity magnetron for microwave applications**
KURT E., Yildiz Y.
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- VIII. **Numerical analyses of the concentrated solar receiver pipes with superheated steam**
KURT E., Demirci M., Sahin H. M.
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- IX. **Design and implementation of a bioinspired leaf shaped hybrid rectenna as a green energy manufacturing concept**
Çelik K., Kurt E.
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.30, sa.5, ss.1995-2012, 2022 (SCI-Expanded)
- X. **A New Artificial Neural Network Model for the Output Voltage and Power Predictions of Permanent Magnet Generators with Variable Air Gaps**
Tekerek A., Kurt E., Tekerek M.
Electric Power Components and Systems, cilt.50, sa.19-20, ss.1131-1142, 2022 (SCI-Expanded)
- XI. **Estimating State of Charge and State of Health of Vented NiCd Batteries with Evolution of Electrochemical Parameters**

Olarte J., Martinez de Ilarduya J., Zulueta E., Ferret R., KURT E., Manuel Lopez-Guede J.

JOM, cilt.73, sa.12, ss.4085-4090, 2021 (SCI-Expanded)

- XII. **Artificial neural network analysis on an axial flux permanent magnet generator having variable air gap and power regime**
TEKEREK A., KURT E.
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- XIII. **Optimization of a 3-kW axial flux permanent magnet generator with variable air gap**
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- XIV. **Design and implementation of a dual band bioinspired leaf rectenna for RF energy harvesting applications**
ÇELİK K., KURT E.
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- XV. **Design and Implementation of a Maximum Power Point Tracking System for a Piezoelectric Wind Energy Harvester Generating High Harmonicity**
KURT E., ÖZHAN D., Bizon N., Manuel Lopez-Guede J.
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- XVI. **High Temperature VLRA Lead Acid Battery SOH Characterization Based on the Evolution of Open Circuit Voltage at Different States of Charge**
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- XVII. **A new algorithm for the colored image encryption via the modified Chua's circuit**
Arpaci B., KURT E., ÇELİK K.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, cilt.23, sa.3, ss.595-604, 2020 (SCI-Expanded)
- XVIII. **Colored Image Encryption and Decryption with a New Algorithm and a Hyperchaotic Electrical Circuit**
Arpaci B., Kurt E., Çelik K., Ciylan B.
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, cilt.15, sa.3, ss.1413-1429, 2020 (SCI-Expanded)
- XIX. **Wind turbine speed control of a contactless piezoelectric wind energy harvester**
Celik E., KURT E., ÖZTÜRK N.
INTERNATIONAL JOURNAL OF ELECTRONICS, cilt.107, sa.2, ss.226-238, 2020 (SCI-Expanded)
- XX. **Effects of Aging and Environmental Factors on Performance of CdTe and CIS Thin-Film Photovoltaic Modules**
DEMİRTAŞ M., Tamyurek B., KURT E., ÇETİNBAŞ İ., Ozturk M. K.
JOURNAL OF ELECTRONIC MATERIALS, cilt.48, sa.11, 2019 (SCI-Expanded)
- XXI. **Preface: special issue on Advances in Energy Explorations**
KURT E., Gömeç Ç., Kabdaşlı N. I.
ENVIRONMENTAL TECHNOLOGY, cilt.41, sa.1, ss.1, 2019 (SCI-Expanded)
- XXII. **Better Fuel Economy by Optimizing Airflow of the Fuel Cell Hybrid Power Systems Using Fuel Flow-Based Load-Following Control**
Bizon N., Mazare A. G., Ionescu L. M., Thounthong P., KURT E., Oproescu M., Serban G., Lita I.
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- XXIII. **Exploration of a Stirling engine and generator combination for air and helium media**
Shufat S. A., KURT E., ÇINAR C., AKSOY F., HANÇERLİOĞULLARI A., SOLMAZ H.
APPLIED THERMAL ENGINEERING, cilt.150, ss.738-749, 2019 (SCI-Expanded)
- XXIV. **A novel meander line integrated E-shaped rectenna for energy harvesting applications**
ÇELİK K., KURT E.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, cilt.29, sa.1, 2019 (SCI-Expanded)

- XXV. **Hydrogen economy of the fuel cell hybrid power system optimized by air flow control to mitigate the effect of the uncertainty about available renewable power and load dynamics**
Bizon N., Manuel Lopez-Guede J., KURT E., Thounthong P., Mazare A. G., Ionescu L. M., Iana G.
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- XXVI. **Air Flow Real-time Optimization Strategy for Fuel Cell Hybrid Power Sources with Fuel Flow Based on Load-following**
Bizon N., Iana G., KURT E., Thounthong P., Oproescu M., Culcer M., Iliescu M.
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- XXVII. **Exploration of a Permanent Magnet Synchronous Generator with Compensated Reactance Windings in Parallel Rod Configuration**
Lyan O., Jankunas V., Guseinoviene E., Pasilis A., Senulis A., Knolis A., KURT E.
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- XXVIII. **A Neural Network Design for the Estimation of Nonlinear Behavior of a Magnetically-Excited Piezoelectric Harvester**
Celik E., UZUN Y., KURT E., ÖZTÜRK N., TOPALOĞLU N.
JOURNAL OF ELECTRONIC MATERIALS, cilt.47, sa.8, ss.4412-4420, 2018 (SCI-Expanded)
- XXIX. **Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems**
Manuel Lopez-Guede J., Ramos-Hernanz J., ALTIN N., ÖZDEMİR Ş., KURT E., Azkune G.
JOURNAL OF ELECTRONIC MATERIALS, cilt.47, sa.8, ss.4519-4532, 2018 (SCI-Expanded)
- XXX. **Analytical and experimental studies on a new linear energy harvester**
KURT E., KALE M., Akbaba S., Bizon N.
CANADIAN JOURNAL OF PHYSICS, cilt.96, sa.7, ss.727-733, 2018 (SCI-Expanded)
- XXXI. **Contributions of Bottom-Up Energy Transitions in Germany: A Case Study Analysis**
Akizu O., Bueno G., Barcena I., KURT E., TOPALOĞLU N., Manuel Lopez-Guede J.
ENERGIES, cilt.11, sa.4, 2018 (SCI-Expanded)
- XXXII. **Mitigation of high harmonicity and design of a battery charger for a new piezoelectric wind energy harvester**
Bouzelata Y., KURT E., UZUN Y., Chenni R.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.273, ss.72-83, 2018 (SCI-Expanded)
- XXXIII. **Effects of Back Iron Components on Efficiency and Generated Power for New Wind Energy Generators**
GÖR H., KURT E.
ELECTRIC POWER COMPONENTS AND SYSTEMS, cilt.46, sa.10, ss.1103-1120, 2018 (SCI-Expanded)
- XXXIV. **Experimental and Theoretical Explorations on the Buckling Piezoelectric Layer Under Magnetic Excitation**
ÇELİK K., KURT E., UZUN Y.
JOURNAL OF ELECTRONIC MATERIALS, cilt.46, sa.7, ss.4003-4016, 2017 (SCI-Expanded)
- XXXV. **Preface to the special issue on "The 4th European Conference on Renewable Energy Systems (ECRES 2016), 28-31 August 2016, Istanbul, Turkey"**
KURT E., Bizon N., ALTIN N., AKIN B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17559-17560, 2017 (SCI-Expanded)
- XXXVI. **Performance analysis of the tracking of the global extreme on multimodal patterns using the Asymptotic Perturbed Extremum Seeking Control scheme**
Bizon N., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17645-17654, 2017 (SCI-Expanded)
- XXXVII. **Energy distributions and radiation emissions in an inertial electrostatic confinement (IEC) device under low and moderate magnetic fields**
DURSUN B., KURT E., Kurt H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17874-17885, 2017 (SCI-Expanded)
- XXXVIII. **Application of artificial neural network to estimate power generation and efficiency of a new axial**

flux permanent magnet synchronous generator

Celik E., Gor H., ÖZTÜRK N., KURT E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17692-17699, 2017 (SCI-Expanded)

XXXIX. **Power control optimization of a new contactless piezoelectric harvester**

Zulueta E., KURT E., UZUN Y., Manuel Lopez-Guede J.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.18134-18144, 2017 (SCI-Expanded)

XL. **Design and implementation of a new contactless triple piezoelectrics wind energy harvester**

KURT E., Cottone F., UZUN Y., Orfei F., Mattarelli M., ÖZHAN D.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17813-17822, 2017 (SCI-Expanded)

XLI. **An inverter design for a new permanent magnet synchronous generator**

GÜLER N., IRMAK E., Gor H., KURT E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.28, ss.17723-17732, 2017 (SCI-Expanded)

XLII. **Energy Harvesting and Energy Efficiency Technology, Methods, and Applications Preface**

Bizon N., Tabatabaei N. M., Blaabjerg F., KURT E.

ENERGY HARVESTING AND ENERGY EFFICIENCY: TECHNOLOGY, METHODS, AND APPLICATIONS, cilt.37, 2017 (SCI-Expanded)

XLIII. **Nonlinear Problems in Piezoelectric Harvesters Under Magnetic Field**

KURT E., UZUN Y.

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XLIV. **Exploration of the Chaotic Behaviour in a Buck-Boost Converter Depending on the Converter and Load Elements**

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XLV. **Energy and exergy analyses of a VVER type nuclear power plant**

Terzi R., Tukenmez I., KURT E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.29, ss.12465-12476, 2016 (SCI-Expanded)

XLVI. **Design and control of a stand-alone hybrid power system**

Madaci B., Chenni R., KURT E., Hemsas K. E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.29, ss.12485-12496, 2016 (SCI-Expanded)

XLVII. **Waveform characteristics and losses of a new double sided axial and radial flux generator**

GÖR H., KURT E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.29, ss.12512-12524, 2016 (SCI-Expanded)

XLVIII. **Many-body solution to the D-2 gas filled inertial electrostatic confinement device**

DURSUN B., KURT E.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.29, ss.12546-12554, 2016 (SCI-Expanded)

XLIX. **Theoretical and Experimental Exploration of Breakdown Phenomena in an Argon-Filled GaP Device**

KURT H. H., Tanriverdi E., KURT E.

JOURNAL OF ELECTRONIC MATERIALS, cilt.45, sa.8, ss.3970-3977, 2016 (SCI-Expanded)

L. **Preface to the special issue on "3rd European Conference on Renewable Energy Systems (ECRES' 2015), 7-10 October 2015, Kerner, Antalya, Turkey"**

KURT E., SEFA İ.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.29, ss.12441-12442, 2016 (SCI-Expanded)

LI. **Exploration of optimal design and performance of a hybrid wind-solar energy system**

Bouzelata Y., ALTIN N., Chenni R., KURT E.

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LII. **Particle Trajectories and Energy Distribution from a New IEC Fusion Device: A Many-Body Approach**

KURT E., DURSUN B.

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LIII. **Preliminary studies of a new permanent magnet generator (PMG) with the axial and radial flux morphology**

- GÖR H., KURT E.
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- LIV. **Electromagnetic design of a new axial and radial flux generator with the rotor back-irons**
KURT E., GÖR H., Doner U.
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- LV. **Estimation of mechanical properties of welded S355J2+N steel via the artificial neural network**
ATEŞ H., Dursun B., KURT E.
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- LVI. **Design and simulation of a unified power quality conditioner fed by solar energy**
Bouzelata Y., KURT E., Chenni R., ALTIN N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.40, sa.44, ss.15267-15277, 2015 (SCI-Expanded)
- LVII. **Influence of void fraction on BWR spent fuel direct recycling scenario**
Waris A., Su'ud Z., Sahin H. M., KURT E., ŞAHİN S.
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- LVIII. **Explorations of displacement and velocity nonlinearities and their effects to power of a magnetically-excited piezoelectric pendulum**
UZUN Y., KURT E., KURT H. H.
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- LIX. **Design and simulation of a solar supplied multifunctional active power filter and a comparative study on the current-detection algorithms**
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- LX. **Bifurcation analysis of a resistor-double inductor and double diode circuit and a comparison with a resistor-inductor-diode circuit in phase space and parametrical responses**
Kurt E., Ciylan B., Taskan O. O., Kurt H. H.
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- LXI. **The Observations of the IR Sensitivity Enhancement, Negative Differential Resistance and Hysteresis in a Microelectronic Gas Discharge Device with GaP**
Kurt H. H., Kurt E.
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- LXII. **Theoretical and experimental analyses of a single phase permanent magnet generator (PMG) with multiple cores having axial and radial directed fluxes**
KURT E., GÖR H., DEMİRBAŞ M.
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- LXIII. **Electromagnetic Design and Simulation of a New Fusion Device**
Dursun B., KURT E.
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- LXIV. **Implementation of a New Contactless Piezoelectric Wind Energy Harvester to a Wireless Weather Station**
Uzun Y., DEMİRBAŞ Ş., KURT E.
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- LXV. **Performance exploration of an energy harvester near the varying magnetic field of an operating induction motor**
Uzun Y., KURT E.
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- LXVI. **The effect of periodic magnetic force on a piezoelectric energy harvester**
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- LXVII. **An inertial electrostatic confinement (IEC) device modeling and the effects of different cathode structures to the fields**
KURT E., Arslan S.

- ENERGY CONVERSION AND MANAGEMENT, cilt.63, ss.55-62, 2012 (SCI-Expanded)
- LXXVIII. **Effects of Grid Structures and Dielectric Materials of the Holder in an Inertial Electrostatic Confinement (IEC) Fusion Device**
KURT E., Arslan S., Guven M. E.
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