

Prof. EROL KURT

Personal Information

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Biography

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).

Education Information

Doctorate, Universitaet Bayreuth, Physik und Mathematik, Germany 2001 - 2004

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1998 - 2001

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

German, A2 Elementary

Dissertations

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

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

Research Areas

Electromagnetic, MEMS, Gases, Plasmas and Electrical Discharges Physics, Nuclear Engineering and Nuclear Energy Studies

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2013 - Continues
Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2011 - 2013
Research Assistant, Universitaet Bayreuth, Faculty Of Physics And Informatics, Physics, 2001 - 2004
Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1999 - 2001

Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - Continues
Erasmus Coordinator, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - 2021
Birim Kalite Komisyonu Üyesi, Gazi University, 2019 - 2019
Deputy Head of Department, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2011 - 2012

Courses

Elektromanyetik Alanların Bilgisayar Destekli Analizi, Doctorate, 2017 - 2018
ELEKTROMANYETİK ALAN TEORİSİ, Undergraduate, 2017 - 2018, 2016 - 2017
Mezuniyet Tezi, Undergraduate, 2016 - 2017
Elektrik Devrelerinde Kaos, Postgraduate, 2016 - 2017

Advising Theses

Kurt E., Design And Implementation Of A Piezoelectric Wind Energy Harvester, Postgraduate, A.CEM(Student), 2021
Kurt E., Design And Implementation Of The Multi-Frequency Hybrid Energy Harvester, Doctorate, K.ÇELİK(Student), 2021
Kurt E., DESIGN AND IMPLEMENTATION OF A NEW MAGNETRON, Postgraduate, Y.YILDIZ(Student), 2021
İLBAŞ M., KURT E., Numerical And Experimental Investigation Of Heat Transfer In A Generator With 3 Phases Permanent Magnet, Doctorate, M.DEMİRCİ(Student), 2020
KURT E., Yeni bir yoğunlaştırıcı güneş enerjisi sistemi tasarımı ve stirling motor ve jeneratör birimlerinin uygulaması, Doctorate, S.ALARABIA(Student), 2019
KURT E., Yeni bir piezoelektrik rüzgar enerjisi hasatçısı tasarımı ve uygulaması, Doctorate, D.ÖZHAN(Student), 2019
KURT E., Güvenli veri iletimi için değiştirilmiş chua devresi yardımıyla tasarlanan renkli görüntü şifreleme sistemi uygulaması, Postgraduate, B.ARPACI(Student), 2019
KURT E., Bir direnç-iki bobin-iki diyotlu kaotik devre aracılığıyla güvenli imge iletişiminin araştırılması, Doctorate, K.MOHAMED(Student), 2018
KURT E., R2L2D devresinde kaos, eşzamanlılık ve güvenli haberleşmenin araştırılması, Postgraduate, C.BİNGÖL(Student), 2016
KURT E., The Design Of A New Permanent Magnet Axial And Radial Flux Generator With Rotor Back-Irons, Postgraduate, U.DÖNER(Student), 2016
KURT E., Design of an inertial electrostatic confinement fusion device and determination of ion behavior, Postgraduate, B.DURSUN(Student), 2014
KURT E., Design and implementation of axial flux generators, Doctorate, H.GÖR(Student), 2014

KURT E., Electricity generation via nonlinear vibrations under the effects of periodic magnetic fields, Doctorate, Y.UZUN(Student), 2012

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Gazi University, November, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.238, no.6, pp.1063-1083, 2024 (SCI-Expanded)
- II. **Computational Modeling of a 2D Vanadium Redox Flow Battery Cell**
Martinez Lopez J., Aramendia I., Fernandez-Gamiz U., Sanchez-Diez E., Beloki A., KURT E., Lopez-Guede J. M.
JOM, vol.76, no.1, pp.130-140, 2024 (SCI-Expanded)
- III. **A wide-band electromagnetic energy harvester**
KURT E., Issimova A., Medetov B.
Energy, vol.277, 2023 (SCI-Expanded)
- 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, vol.75, no.3, pp.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), vol.15, no.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, vol.236, no.8, pp.1650-1659, 2022 (SCI-Expanded)
- VII. **Design and implementation of a X Band 9 GHz cavity magnetron for microwave applications**
KURT E., Yildiz Y.
MEASUREMENT, vol.202, 2022 (SCI-Expanded)
- VIII. **Numerical analyses of the concentrated solar receiver pipes with superheated steam**
KURT E., Demirci M., Sahin H. M.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.236, no.5, pp.893-910, 2022 (SCI-Expanded)
- 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, vol.30, no.5, pp.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, vol.50, no.19-20, pp.1131-1142, 2022 (SCI-Expanded)
- XI. **Estimating State of Charge and State of Health of Vented NiCd Batteries with Evolution of Electrochemical Parameters**
Olarde J., Martinez de Ilarduya J., Zulueta E., Ferret R., KURT E., Manuel Lopez-Guede J.

JOM, vol.73, no.12, pp.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.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.46, no.4, 2021 (SCI-Expanded)
- XIII. **Optimization of a 3-kW axial flux permanent magnet generator with variable air gap**
KURT E., GÖR H., ÇELİK K.
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol.31, no.11, 2021 (SCI-Expanded)
- XIV. **Design and implementation of a dual band bioinspired leaf rectenna for RF energy harvesting applications**
ÇELİK K., KURT E.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.31, no.11, 2021 (SCI-Expanded)
- 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.
SUSTAINABILITY, vol.13, no.14, 2021 (SCI-Expanded)
- XVI. **High Temperature VLRA Lead Acid Battery SOH Characterization Based on the Evolution of Open Circuit Voltage at Different States of Charge**
Olarte J., Martinez de Ilarduya J., Zulueta E., Ferret R., KURT E., Lopez-Guede J. M.
JOM, vol.73, no.5, pp.1251-1260, 2021 (SCI-Expanded)
- 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, vol.23, no.3, pp.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., Cıylan B.
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.15, no.3, pp.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, vol.107, no.2, pp.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, vol.48, no.11, 2019 (SCI-Expanded)
- XXI. **Preface: special issue on Advances in Energy Explorations**
KURT E., Gömeç Ç., Kabdaşlı N. I.
ENVIRONMENTAL TECHNOLOGY, vol.41, no.1, pp.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.
ENERGIES, vol.12, no.14, 2019 (SCI-Expanded)
- 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, vol.150, pp.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, vol.29, no.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.
ENERGY CONVERSION AND MANAGEMENT, vol.179, pp.152-165, 2019 (SCI-Expanded)

- 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.
FUEL CELLS, vol.18, no.6, pp.809-823, 2018 (SCI-Expanded)
- 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.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.8, pp.4437-4443, 2018 (SCI-Expanded)
- 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, vol.47, no.8, pp.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, vol.47, no.8, pp.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, vol.96, no.7, pp.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, vol.11, no.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, vol.273, pp.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, vol.46, no.10, pp.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, vol.46, no.7, pp.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, vol.42, no.28, pp.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, vol.42, no.28, pp.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, vol.42, no.28, pp.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, vol.42, no.28, pp.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, vol.42, no.28, pp.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, vol.42, no.28, pp.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, vol.42, no.28, pp.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, vol.37, 2017 (SCI-Expanded)
- XLIII. **Nonlinear Problems in Piezoelectric Harvesters Under Magnetic Field**
KURT E., UZUN Y.
ENERGY HARVESTING AND ENERGY EFFICIENCY: TECHNOLOGY, METHODS, AND APPLICATIONS, vol.37, pp.107-142, 2017 (SCI-Expanded)
- XLIV. **Exploration of the Chaotic Behaviour in a Buck-Boost Converter Depending on the Converter and Load Elements**
DEMİRBAŞ Ş., FİDANBOY H., KURT E.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3889-3899, 2016 (SCI-Expanded)
- XLV. **Energy and exergy analyses of a VVER type nuclear power plant**
Terzi R., Tukenmez I., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.29, pp.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, vol.41, no.29, pp.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, vol.41, no.29, pp.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, vol.41, no.29, pp.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, vol.45, no.8, pp.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, vol.41, no.29, pp.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.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.29, pp.12497-12511, 2016 (SCI-Expanded)
- LII. **Particle Trajectories and Energy Distribution from a New IEC Fusion Device: A Many-Body Approach**
KURT E., DURSUN B.
JOURNAL OF FUSION ENERGY, vol.35, no.3, pp.483-492, 2016 (SCI-Expanded)
- LIII. **Preliminary studies of a new permanent magnet generator (PMG) with the axial and radial flux morphology**
GÖR H., KURT E.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.17, pp.7005-7018, 2016 (SCI-Expanded)
- LIV. **Electromagnetic design of a new axial and radial flux generator with the rotor back-irons**
KURT E., GÖR H., Doner U.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.17, pp.7019-7026, 2016 (SCI-Expanded)
- LV. **Estimation of mechanical properties of welded S355J2+N steel via the artificial neural network**
ATEŞ H., Dursun B., KURT E.
SCIENTIA IRANICA, vol.23, no.2, pp.609-617, 2016 (SCI-Expanded)
- 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, vol.40, no.44, pp.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.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.44, pp.15172-15178, 2015 (SCI-Expanded)
- 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.
SENSORS AND ACTUATORS A-PHYSICAL, vol.224, pp.119-130, 2015 (SCI-Expanded)
- LIX. **Design and simulation of a solar supplied multifunctional active power filter and a comparative study on the current-detection algorithms**
Bouzelata Y., KURT E., ALTIN N., Chenni R.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.43, pp.1114-1126, 2015 (SCI-Expanded)
- 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., Ciyilan B., Taskan O. O., Kurt H. H.
SCIENTIA IRANICA, vol.21, no.3, pp.935-944, 2014 (SCI-Expanded)
- 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.
ELEKTRONIKA IR ELEKTROTECHNIKA, no.1, pp.55-58, 2014 (SCI-Expanded)
- 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., DEMİRTAŞ M.
ENERGY CONVERSION AND MANAGEMENT, vol.77, pp.163-172, 2014 (SCI-Expanded)
- LXIII. **Electromagnetic Design and Simulation of a New Fusion Device**
Dursun B., KURT E.
ELEKTRONIKA IR ELEKTROTECHNIKA, vol.20, no.8, pp.34-38, 2014 (SCI-Expanded)
- LXIV. **Implementation of a New Contactless Piezoelectric Wind Energy Harvester to a Wireless Weather Station**
Uzun Y., DEMİRBAŞ Ş., KURT E.
ELEKTRONIKA IR ELEKTROTECHNIKA, vol.20, no.10, pp.35-39, 2014 (SCI-Expanded)
- LXV. **Performance exploration of an,energy harvester near the varying magnetic field of an operating induction motor**
Uzun Y., KURT E.
ENERGY CONVERSION AND MANAGEMENT, vol.72, pp.156-162, 2013 (SCI-Expanded)
- LXVI. **The effect of periodic magnetic force on a piezoelectric energy harvester**
Uzun Y., KURT E.
SENSORS AND ACTUATORS A-PHYSICAL, vol.192, pp.58-68, 2013 (SCI-Expanded)
- 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, vol.63, pp.55-62, 2012 (SCI-Expanded)

- LXVIII. **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.
JOURNAL OF FUSION ENERGY, vol.30, no.5, pp.404-412, 2011 (SCI-Expanded)
- LXIX. **A stationary multi-component cathode modeling and ion trajectories for an inertial electrostatic confinement fusion device**
KURT E.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.35, no.2, pp.89-95, 2011 (SCI-Expanded)
- LXX. **Alternative numerical modeling of a superconducting charge qubit as an eigenvalue problem**
Canturk M., KURT E., Askerzade I. N.
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol.30, no.2, pp.775-792, 2011 (SCI-Expanded)
- LXXI. **BIFURCATIONS AND HYPERCHAOS FROM A DC DRIVEN NONIDENTICAL JOSEPHSON JUNCTION SYSTEM**
KURT E., Canturk M.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.20, no.11, pp.3725-3740, 2010 (SCI-Expanded)
- LXXII. **Preliminary plasma focus studies at ODAK-3K device using track detectors**
Akgun Y., Bolukdemir A. S., KURT E., Oncu T., Alacakir A.
PLASMA DEVICES AND OPERATIONS, vol.17, no.4, pp.293-300, 2009 (SCI-Expanded)
- LXXIII. **Chaotic dynamics of resistively coupled DC-driven distinct Josephson junctions and the effects of circuit parameters**
KURT E., Canturk M.
PHYSICA D-NONLINEAR PHENOMENA, vol.238, no.22, pp.2229-2237, 2009 (SCI-Expanded)
- LXXIV. **Ionization effects and linear stability in a coaxial plasma device**
KURT E., Kurt H. H., Bayhan U.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.7, no.1, pp.123-129, 2009 (SCI-Expanded)
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- LIV. **Implementation of the grid-interactive power generation for a hybrid system including a new permanent magnet generator and the solar panels with wind speed - dependent battery controller**
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- LVI. **Energy Distributions and Radiative Features in an Inertial Electrostatic Confinement Device**
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- LVIII. **Design and Simulation of the Antenna for RF Energy Harvesting Systems**
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- LX. **DESIGN, THEORY AND IMPLEMENTATION OF A NEW LINEAR ELECTROMAGNETIC HARVESTER**
KURT E., KALE M., AKBABA S., BIZON N.
33rd Int. Physics Congress, Bodrum, Turkey, 6 - 10 September 2017
- LXI. **New technique for secure image communication via a resistor-two inductors-two diodes chaotic circuit**
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- LXVIII. **IMPLEMENTATION OF A STIRLING ENGINE AND GENERATOR COMBINATION FOR DIRECT ELECTRICITY GENERATION**
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- LXXVI. **The Efficiency Estimation Of 900 MHZ Rf Energy Harvester Using Artificial Neural Network**
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- LXXVII. **Synchronization and Secure Communication in a Resistor Double Inductor and Diode Circuit**
KURT E., Bingol C.

58th IEEE International Scientific Conference on Power and Electrical Engineering of Riga-Technical-University (RTUCON), Riga, Latvia, 12 - 13 October 2017

LXXVIII. Erasmus Innovative European Studies

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Int Joint Conf on Int Conference on Soft Comp Models in Ind and Environm Applicat / Int Conf on Computat Intelligence in Secur Informat Syst / Int Conf on European Transnat Educ, San Sebastian, Spain, 19 - 21 October 2016, vol.527, pp.758-765

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LXXX. Electrical and optical explorations of a new atmospheric plasma device

KURT E., öncü t., KURT H. H.

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LXXXI. Piezoelectrics as micro energy devices

KURT E.

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LXXXII. The exploration of radiative features in an inertial electrostatic confinement fusion system

DURSUN B., KURT E.

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LXXXIII. Implementation of a new piezoelectric wind energy harvester

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LXXXIV. EFFECTS OF NONLINEARITIES TO THE PIEZOELECTRIC ENERGY HARVESTERS

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LXXXV. Exploration of the effect of back iron in a new permanent magnet synchronous generator

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LXXXVI. Design and Simulation of a New Inverter for an Axial Flux Permanent Magnet Generator

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LXXXVIII. Electromagnetic Analysis of a Single Phase Grid Interactive Inverter

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Zulueta E., KURT E., UZUN Y.

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- XCV. ENERGY DISTRIBUTION OF PARTICLES IN A DEUTERIUM FILLED CONFINEMENT DEVICE**
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- XCVI. Electromagnetic optimization of a permanent magnet synchronous generator**
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- C. A numerical real time dynamic tool for piezoelectric beam under magnetic fields**
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- CI. THEORETICAL AND EXPERIMENTAL EXPLORATION OF BREAKDOWN PHENOMENA IN AN ARGON FILLED GaPDEVICE**
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- CII. Waveform characteristics and losses of a new double sided axial and radial flux generator**
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- CIII. Comparison of two maximum power point tracking techniques applied to a photovoltaic system**
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- CIV. Control of a Stand Alone Hybrid Power System**
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- CV. Simulations of Particle Distribution at Moderate Magnetic Field Case in an Inertial Electrostatic Confinement Unit**
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- CX. Energy and exergy analyses of a VVER type nuclear power plant**
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- CXV. Design and Simulation of a New Dual-band RF Energy Harvester with High Efficiency**
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- CXX. **Power vibration relation for a piezoelectric harvester under magnetic excitation**
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- CXXIII. **Investigation of Current Harmonics Using FEM on Different Rotor Types of PMSMs**
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Supported Projects

KURT E., ÇELİK K., Project Supported by Higher Education Institutions, Çoklu frekanslı bir Hibrit enerji harmanlayıcının tasarımı ve Uygulaması, 2020 - 2021

KURT E., YILDIZ Y., Project Supported by Higher Education Institutions, Yeni bir magnetron tasarımı ve uygulaması, 2019 - 2021

Kurt E., Gör H., TUBITAK Project, Çift Rotorlu Parçalı Nüveli Yeni Bir Rüzgar Enerjisi Jeneratörü Tasarımı Ve Üretimi, 2017 - 2019

KURT E., Project Supported by Other Official Institutions, Deprem erken Uyarı Sistemi, 2017 - 2018
Kurt E., IRMAK E., Erasmus Project, Innovative European Studies on Renewable Energy Systems, 2015 - 2018
KURT E., TUBITAK Project, Yeni bir yüksek manyetik akı yoğunluklu elektromanyetik üreteç, 2017 - 2017
KURT E., Project Supported by Higher Education Institutions, Tasarruflu lambaların şebeke üzerindeki bozucu etkilerinin azaltılması, 2015 - 2017
KURT E., Project Supported by Higher Education Institutions, Eksenel ve radyal akılı sürekli mıknatıslı yeni bir jeneratörün elektromanyetik tasarımı ve simülasyonu, 2016 - 2016
KURT E., TUBITAK Project, Çok amaçlı enkaz arama robotu ARABOT, 2015 - 2016
KURT E., TUBITAK Project, 114E017 Çoklu Doğal Frekanslı Temassız Piezoelektrik Enerji Üretici Modellemesi ve Rüzgar Enerjisi Uygulaması, 2014 - 2016
KURT E., TUBITAK Project, Çok Fonksiyonlu Robot Kolu Tasarımı ve Yapımı, 2014 - 2015
Kurt E., Erasmus Project, European Workshop on Renewable Energy Systems, 2013 - 2014
KURT E., Project Supported by Higher Education Institutions, Rüzgardan Elektrik Enerjisi Üreten Manyetik Piezoelektrik Enerji Üreticinin Tasarımı ve Meteoroloji Ünitesine Uygulanması, 2012 - 2014
KURT E., Project Supported by Higher Education Institutions, DÜŞÜK HIZLI RÜZGAR UYGULAMALARI İÇİN ALTERNATÖR TASARIMI VE ROTOR ÜNİTESİNİN YAPIMI, 2011 - 2014
KURT E., Project Supported by Higher Education Institutions, Manyetik alan altında doğrusal-olmayan mekanik titreşimlerden elektrik enerjisi eldesi, 2010 - 2012
Kurt E., Türk Çakır İ., Energy and Natural Resources Ministry, Hızlı nötronlarla radyo görüntüleme için plazma odak plazma focus cihazı yapımı, 2006 - 2009
Kurt E., Öncü T., Energy and Natural Resources Ministry, Yeni Bir Atmosferik Plazma Jet Cihazı Tasarımı ve Yapımı, 2006 - 2009

Patent

Kurt E., Dursun B., Energy harvester having a core with ferromagnetic particles in a non-magnetic fluid, Utility Model, CHAPTER H Electricity, The Invention Registration Number: TR201907503Y , Standard Registration, 2023
Kurt E., Dursun B., Gör H., ROTORU KANATÇIKLI ARAÇ ÜSTÜ ENERJİ HASAT CİHAZI, Patent, CHAPTER H Electricity, The Invention Registration Number: 2019/21316 , Standard Registration, 2019
Kurt E., Kurt H. H., Gör H., TEK FAZLI BİR JENERATÖR, Patent, CHAPTER H Electricity, The Invention Registration Number: 2013 13062 , Standard Registration, 2017
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Kurt E., Arslan S., Çift rotorlu üçlü statorlu farklı şekildeki nüve uçları radyal ve açısız olarak farklı konumlandırılmış tek eksenli sürekli mıknatıslı jeneratör., Patent, CHAPTER H Electricity, The Invention Registration Number: 2011 04467 , Standard Registration, 2013

Activities in Scientific Journals

JOURNAL OF ENERGY SYSTEMS, First Editor, 2020 - Continues
JOURNAL OF ENERGY MANAGEMENT AND TECHNOLOGY, Committee Member, 2017 - Continues
Energies, Special Issue Editor, 2020 - 2021
TECHNOLOGY AND ECONOMICS OF SMART GRIDS AND SUSTAINABLE ENERGY, Special Issue Editor, 2020 - 2021
Environmental Technology, Special Issue Editor, 2020 - 2020
Proceedings Of The Institution Of Mechanical Engineers Part A-Journal Of Power And Energy, Special Issue Editor, 2019 - 2019
International Journal of Renewable Energy Technology, Special Issue Editor, 2019 - 2019

Journal Of Electronic Materials, Special Issue Editor, 2018 - 2018
Journal Of Electronic Materials, Special Issue Editor, 2017 - 2017
Journal Of Electronic Materials, Special Issue Editor, 2016 - 2016
Renewable Energy, Special Issue Editor, 2016 - 2016
International Journal of Informatics Technology, First Editor, 2014 - 2016
International Journal Of Hydrogen Energy, Special Issue Editor, 2015 - 2015

Memberships / Tasks in Scientific Organizations

IEEE, Member, 2006 - Continues, United States Of America
Türk Bilim Araştırma Vakfı, Secretary General, 2016 - 2018, Turkey

Tasks In Event Organizations

Kurt E., 5. International Conference on Nuclear & Renewable Energy Resources, Scientific Congress, Hefei, China, Eylül 2016
Kurt E., 3. European Conference on Renewable Energy Systems, Scientific Congress, Antalya, Turkey, Ekim 2015
Kurt E., 2. European Workshop on Renewable Energy Systems , Workshop Organization, Turkey, Eylül 2013

Metrics

Publication: 262
Citation (WoS): 931
Citation (Scopus): 1119
H-Index (WoS): 18
H-Index (Scopus): 21

Congress and Symposium Activities

International Conference on Advances in Thermal Engineering and Applications, Invited Speaker, Chennai, India, 2021
Türkiye Atom Enerjisi Kurumu ulusal politika ve strateji belgesi çalıştayı, Invited Speaker, Ankara, Turkey, 2019
1. Ulusal Mühendislik ve Teknoloji Kongresi, Invited Speaker, Karaman, Turkey, 2019
ECAI2019- ELECTRONICS COMPUTERS AND ARTIFICIAL INTELLIGENCE, Invited Speaker, Pitesti, Romania, 2019
3. International Scientific Conference on Computer Science and Applied Mathematics, Invited Speaker, Almati, Kazakhstan, 2018
International underground resources and energy conference, Invited Speaker, Yozgat, Turkey, 2016
5th International Conference on Nuclear and Renewable Energy Resources, Invited Speaker, Hefei, China, 2016
ECAI 2016 - 8th International Conference on Electronics, Computers and Artificial Intelligence, Invited Speaker, Bucuresti, Romania, 2016
Int. Conf. Engineering & MIS, Invited Speaker, İstanbul, Turkey, 2015
3. International Conference on Information Processing and Electrical Engineering, Invited Speaker, Tebessa, Algeria, 2014
6th International Conference on Electronics, Computers and Artificial Intelligence, Invited Speaker, Ploiesti, Romania, 2014

Scholarships

DFG-TÜBİTAK Ortak Araştırma Bursu, TÜBİTAK, 2006 - 2006

DFG - EU European Graduate College, European Commission, 2001 - 2004

Visual Activities

Kurt E., JOURNAL OF ENERGY SYSTEMS, Journal Publishing, 2017 - Continues

Non Academic Experience

TÜRKİYE ATOM ENERJİSİ KURUMU

Union, Türkiye Kamu-Sen, Foreign Affairs