

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 chairman to serial European Conference on Renewable Energy Systems (ECRES) and the guest editor for some reputable journals. He is the 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

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

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

Foreign Languages

German, A2 Elementary

English, C1 Advanced

Dissertations

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

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

Research Areas

Electromagnetic, MEMS

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - Continues

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

Professional Experience

Deputy Head of Department, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2011 - Continues
Head of Department, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2009 - Continues
Erasmus Coordinator, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - 2019

Courses

Elektromanyetik Alanların Bilgisayar Destekli Analizi, Doctorate, 2017 - 2018
ELEKTROMANYETİK ALAN TEORİSİ, Under Graduate, 2016 - 2017, 2017 - 2018
Mezuniyet Tezi, Under Graduate, 2016 - 2017
Elektrik Devrelerinde Kaos, Post Graduate, 2016 - 2017

Advising Theses

İLBAŞ M., KURT E., Üç fazlı sürekli mıknatıslı bir jeneratörde ısı transferinin sayısal ve deneysel olarak araştırılması, 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., Güvenli veri iletimi için değiştirilmiş chua devresi yardımıyla tasarlanan renkli görüntü şifreleme sistemi uygulaması, Post Graduate, B.ARPACI(Student), 2019
KURT E., Yeni bir piezoelektrik rüzgar enerjisi hasatçısı tasarımı ve uygulaması, Doctorate, D.ÖZHAN(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, Post Graduate, C.BİNGÖL(Student), 2016
KURT E., Rotoru nüveli, eksenel ve radyal akıli, kalıcı mıknatıslı yeni bir jeneratör tasarımı, Post Graduate, U.DÖNER(Student), 2016
KURT E., Eksenel akıli jeneratörlerin tasarımı ve uygulaması, Doctorate, H.GÖR(Student), 2014
KURT E., Durağan elektrostatik hapsedme füzyon reaktörü tasarımı ve iyon davranışlarının belirlenmesi, Post Graduate, B.DURSUN(Student), 2014
KURT E., Periyodik manyetik alanlar etkisinde doğrusal olmayan titreşimlerden elektrik enerjisi üretimi, Doctorate, Y.UZUN(Student), 2012
KURT E., Düşük enerjili plazma odak füzyon cihazı yapımı ve nötronik ölçümler, Doctorate, Y.AKGÜN(Student), 2010

Jury Memberships

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. 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, pp.595-604, 2020
(Journal Indexed in SCI)

- II. **Colored Image Encryption and Decryption with a New Algorithm and a Hyperchaotic Electrical Circuit**
Arpaci B., KURT E., ÇELİK K., CİYLAN B.
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.15, pp.1413-1429, 2020 (Journal Indexed in SCI)
- III. **Wind turbine speed control of a contactless piezoelectric wind energy harvester**
Celik E., KURT E., ÖZTÜRK N.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.107, pp.226-238, 2020 (Journal Indexed in SCI)
- IV. **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, 2019 (Journal Indexed in SCI)
- V. **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, 2019 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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, 2019 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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, pp.809-823, 2018 (Journal Indexed in SCI)
- X. **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, pp.4519-4532, 2018 (Journal Indexed in SCI)
- XI. **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, pp.4412-4420, 2018 (Journal Indexed in SCI)
- XII. **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, pp.4437-4443, 2018 (Journal Indexed in SCI)
- XIII. **Analytical and experimental studies on a new linear energy harvester**
KURT E., KALE M., Akbaba S., Bizon N.
CANADIAN JOURNAL OF PHYSICS, vol.96, pp.727-733, 2018 (Journal Indexed in SCI)
- XIV. **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, 2018 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)

- XVI. **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, pp.1103-1120, 2018 (Journal Indexed in SCI)
- XVII. **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, pp.18134-18144, 2017 (Journal Indexed in SCI)
- XVIII. **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, pp.17559-17560, 2017 (Journal Indexed in SCI)
- XIX. **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, pp.17645-17654, 2017 (Journal Indexed in SCI)
- XX. **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, pp.17874-17885, 2017 (Journal Indexed in SCI)
- XXI. **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, pp.17692-17699, 2017 (Journal Indexed in SCI)
- XXII. **Experimental and Theoretical Explorations on the Buckling Piezoelectric Layer Under Magnetic Excitation**
ÇELİK K., KURT E., UZUN Y.
JOURNAL OF ELECTRONIC MATERIALS, vol.46, pp.4003-4016, 2017 (Journal Indexed in SCI)
- XXIII. **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, pp.17813-17822, 2017 (Journal Indexed in SCI)
- XXIV. **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, pp.17723-17732, 2017 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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, pp.3889-3899, 2016 (Journal Indexed in SCI)
- XXVIII. **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, pp.12497-12511, 2016 (Journal Indexed in SCI)

- XXIX. **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, pp.12512-12524, 2016 (Journal Indexed in SCI)
- XXX. **Many-body solution to the D-2 gas filled inertial electrostatic confinement device**
DURSUN B., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, pp.12546-12554, 2016 (Journal Indexed in SCI)
- XXXI. **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, pp.3970-3977, 2016 (Journal Indexed in SCI)
- XXXII. **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, pp.12441-12442, 2016 (Journal Indexed in SCI)
- XXXIII. **Energy and exergy analyses of a VVER type nuclear power plant**
Terzi R., Tukenmez I., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, pp.12465-12476, 2016 (Journal Indexed in SCI)
- XXXIV. **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, pp.12485-12496, 2016 (Journal Indexed in SCI)
- XXXV. **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, pp.483-492, 2016 (Journal Indexed in SCI)
- XXXVI. **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, pp.7019-7026, 2016 (Journal Indexed in SCI)
- XXXVII. **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, pp.7005-7018, 2016 (Journal Indexed in SCI)
- XXXVIII. **Estimation of mechanical properties of welded S355J2+N steel via the artificial neural network**
ATEŞ H., Dursun B., KURT E.
SCIENTIA IRANICA, vol.23, pp.609-617, 2016 (Journal Indexed in SCI)
- XXXIX. **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, pp.15172-15178, 2015 (Journal Indexed in SCI)
- XL. **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, pp.15267-15277, 2015 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)
- XLIV. **Electromagnetic Design and Simulation of a New Fusion Device**

- Dursun B., KURT E.
ELEKTRONIKA IR ELEKTROTECHNIKA, vol.20, pp.34-38, 2014 (Journal Indexed in SCI)
- XLV. **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, pp.35-39, 2014 (Journal Indexed in SCI)
- XLVI. **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 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **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 (Journal Indexed in SCI)
- XLIX. **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, pp.404-412, 2011 (Journal Indexed in SCI)
- L. **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, pp.89-95, 2011 (Journal Indexed in SCI)
- LI. **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, pp.775-792, 2011 (Journal Indexed in SCI)
- LII. **BIFURCATIONS AND HYPERCHAOS FROM A DC DRIVEN NONIDENTICAL JOSEPHSON JUNCTION SYSTEM**
KURT E., Canturk M.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.20, pp.3725-3740, 2010 (Journal Indexed in SCI)
- LIII. **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, pp.2229-2237, 2009 (Journal Indexed in SCI)
- LIV. **Ionization effects and linear stability in a coaxial plasma device**
KURT E., Kurt H. H., Bayhan U.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.7, pp.123-129, 2009 (Journal Indexed in SCI)
- LV. **Pattern formation in the rotating cylindrical annulus with an azimuthal magnetic field at low prandtl numbers**
KURT E., Pesch W., Busse F. H.
JOURNAL OF VIBRATION AND CONTROL, vol.13, pp.1321-1330, 2007 (Journal Indexed in SCI)
- LVI. **Lyapunov exponent as an indicator of phase transition in melting Pd-13 clusters**
KURT E., Boyukata M., Guvenc Z. B.
PHYSICA SCRIPTA, vol.74, pp.353-361, 2006 (Journal Indexed in SCI)
- LVII. **Nonlinear responses of a magnetoelastic beam in a step-pulsed magnetic field**
KURT E.
NONLINEAR DYNAMICS, vol.45, pp.171-182, 2006 (Journal Indexed in SCI)
- LVIII. **Nonlinearities from a non-autonomous chaotic circuit with a non-autonomous model of Chua's diode**

KURT E.

PHYSICA SCRIPTA, vol.74, pp.22-27, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Cogging Torque Minimization Using Skewed and Separated Magnet Geometries**
Dalcali A., KURT E., Celik E., ÖZTÜRK N.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, pp.223-230, 2020 (Journal Indexed in ESCI)
- II. **Modeling and experimental validation of flow phenomena for optimum rotor blades of a new type permanent magnet generator**
İLBAŞ M., Demirci M., KURT E.
SN APPLIED SCIENCES, vol.1, 2019 (Journal Indexed in ESCI)
- III. **Implementation of a Real Time Analog Secure Image Communication System via a Chaotic Circuit**
HANÇERLİOĞULLARI A., El Hadad K. M. , KURT E.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, pp.1083-1092, 2019 (Journal Indexed in ESCI)
- IV. **Design and fabrication of a new micro-power scaled electromagnetic harvester**
mutlu b., KURT E., Bizon N., LOPEZ GUEDE J. M.
Journal of Energy Systems, vol.3, pp.51-66, 2019 (Refereed Journals of Other Institutions)
- V. **Modeling and Design of Azimuth-Altitude Dual Axis Solar Tracker for Maximum Solar Energy Generation**
Shufat S. A. A. , KURT E., HANÇERLİOĞULLARI A.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, vol.8, pp.7-13, 2019 (Journal Indexed in ESCI)
- VI. **A power circuit design for the poloidal field coils in a torus shaped plasma system**
DURSUN B., KURT E., TEKEREK M.
Journal of Energy Systems, pp.123-128, 2019 (Refereed Journals of Other Institutions)
- VII. **Design optimization study of a torus type axial flux machine**
ARSLAN S., KURT E., Akizu O., LOPEZ GUEDE J. M.
Journal of Energy Systems, pp.43-56, 2018 (Refereed Journals of Other Institutions)
- VIII. **Improving the Efficiency of a Nuclear Power Plant Using A Thermoelectric Cogeneration System**
Terzi R., KURT E.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, vol.7, pp.77-84, 2018 (Journal Indexed in ESCI)
- IX. **A numerical model for a Stirling engine**
Alaraby A. S. , KURT E., Mohamed E. H. , Hancerliogullari A.
Journal of Energy Systems, pp.1, 2018 (Refereed Journals of Other Institutions)
- X. **Electromagnetic design of a new radial flux permanent magnet motor**
Bouloukza I., Mourad M., KURT E., BAL G., Ökmen C.
Journal of Energy Systems, vol.2, 2018 (Refereed Journals of Other Institutions)
- XI. **Computational characterization of an axial rotor fan**
KURT E., DEMİRCİ M., FERNANDEZ GAMIZ U., İLBAŞ M., ZULUETA E., RAMOS HERNANZ J. A. , JOSE ANTONIO L. G.
JOURNAL OF ENERGY SYSTEMS, vol.1, pp.129-137, 2017 (Refereed Journals of Other Institutions)
- XII. **THE EFFICIENCY ESTIMATION OF 900 MHZ RFENERGY HARVESTER USING ARTIFICIAL NEURALNETWORK**
DURSUN B., UZUN Y., KURT E.
Electrical and Electronics Engineering: An International Journal (ELELIJ), vol.6, pp.17-23, 2017 (Refereed Journals of Other Institutions)
- XIII. **A New Sweep Up/Down Phenomenon between the Chaotic and Regular Regions in a New R2L2D Circuit**
KURT E., Bingol C.

- JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, pp.305-310, 2016 (Journal Indexed in ESCI)
- XIV. **ELECTRICAL AND OPTICAL EXPLORATIONS OF A NEW ATMOSPHERIC PLASMA DEVICE**
KURT E., Öncü T., KURT H. H.
Electronic Letters on ScienceEngineering, 2016 (Refereed Journals of Other Institutions)
- XV. **Development and characterization of semiconductor gas discharge microstructure.**
KURT H. H. , KURT E., salamov b.
FİZİKA, 2009 (Refereed Journals of Other Institutions)
- XVI. **Effect of periodic magnetic field to the dynamics of vibrating beam**
KURT E., KASAP R., ACAR S.
Mathematical Applications, vol.2, pp.275-283, 2004 (Refereed Journals of Other Institutions)
- XVII. **Investigating the most appropriate parameters of the nonlinearresistor circuit time series**
KURT E., KASAP R.
J. Inst. Sci. Tech. Gazi Uni., vol.14, pp.1261-1269, 2001 (Other Refereed National Journals)
- XVIII. **A comparison of chaotic circuits from a statistical approach**
KURT E., ACAR S., KASAP R.
Mathematical Computational Applications, vol.3, pp.95-103, 2000 (Refereed Journals of Other Institutions)
- XIX. **Comparison of chaotic circuits from a statistical approach**
KURT E., ACAR S., Kasap R.
Mathematical and Computational Applications, vol.5, pp.95-103, 2000 (Refereed Journals of Other Institutions)
- XX. **An investigation of chaos in the RL diode circuit using the BDS test**
Kasap R., KURT E.
Journal of Applied Mathematics and Decision Sciences, vol.2, pp.193-199, 1998 (Refereed Journals of Other Institutions)
- XXI. **An investigation of chaos in RL-diode circuit by using the BDS test**
KASAP R., KURT E.
Journal of Applied Mathematics Decision Sciences, vol.2, pp.193-199, 1998 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Karmaşanın Bilimi: Kaos(Gözden Geçirilmiş, Genişletilmiş Baskı)**
KURT E., KASAP R.
Nobel, Ankara, 2020
- II. **Fen ve Mühendislik için Fizik**
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VI. Statistical Physics Days, İstanbul, Turkey, 01 January 1999

Patent

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Activities in Scientific Journals

JOURNAL OF ENERGY SYSTEMS, First Editor, 2017 - 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

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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

Invited Congress and Symposium Activities

Türkiye Atom Enerjisi Kurumu ulusal politika ve strateji belgesi çalıştayı, Attendee, 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

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