

## Prof. EROL KURT

### Personal Information

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### International Researcher IDs

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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](http://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. **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)
- II. **A wide-band electromagnetic energy harvester**  
KURT E., Issimova A., Medetov B.  
Energy, vol.277, 2023 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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)
- VI. **Design and implementation of a X Band 9 GHz cavity magnetron for microwave applications**  
KURT E., Yildiz Y.  
MEASUREMENT, vol.202, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- 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. **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)
- 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 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)
- XV. **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)
- XVI. **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)
- XVII. **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, vol.15, no.3, pp.1413-1429, 2020 (SCI-Expanded)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)

- XXVI. **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)
- XXVII. **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)
- 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. **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)
- XXX. **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)
- 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. **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)
- XXXIII. **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)
- 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. **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)
- 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. **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)

- XXXIX. **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)
- XL. **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)
- 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 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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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. **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)
- LI. **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)
- LII. **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)
- 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. **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)
- LV. **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)
- LVI. **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)
- LVII. **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)
- LVIII. **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)
- LIX. **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.  
SCIENTIA IRANICA, vol.21, no.3, pp.935-944, 2014 (SCI-Expanded)
- LX. **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 ELEKTROTEHNIKA, no.1, pp.55-58, 2014 (SCI-Expanded)
- LXI. **Implementation of a New Contactless Piezoelectric Wind Energy Harvester to a Wireless Weather Station**  
Uzun Y., DEMİRBAŞ Ş., KURT E.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.20, no.10, pp.35-39, 2014 (SCI-Expanded)
- LXII. **Electromagnetic Design and Simulation of a New Fusion Device**  
Dursun B., KURT E.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.20, no.8, pp.34-38, 2014 (SCI-Expanded)
- LXIII. **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)
- LXIV. **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)
- LXV. **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)
- LXVI. **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)
- LXVII. **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)

- LXVIII. **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)
- LXIX. **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)
- LXX. **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)
- LXXI. **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)
- LXXII. **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)
- LXXIII. **Ionization effects and linear stability in a coaxial plasma device**  
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DEMİRTAŞ M., KURT E.

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LI. **Effect of aging and environmental factors on performance of thin film photovoltaic modules: A comparative analysis**

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- LIV. **Energy Distributions and Radiative Features in an Inertial Electrostatic Confinement Device**  
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- LV. **Design and implementation of a rotational speed controller for a contactless piezoelectric wind energy harvester**  
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- LVI. **Design and Simulation of the Antenna for RF Energy Harvesting Systems**  
ÇELİK K., KURT E.  
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- LVII. **Design and Modelling of a Triple Wind Energy Harvester With a Variable Capacitance**  
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- LVIII. **DESIGN, THEORY AND IMPLEMENTATION OF A NEW LINEAR ELECTROMAGNETIC HARVESTER**  
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- LIX. **New technique for secure image communication via a resistor-two inductors-two diodes chaotic circuit**  
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AKIZU O., KURT E., BUENO G., LOPEZ GUEDE J. M., ARTO I.  
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- LXVII. **EXPLORATION OF A PERMANENT MAGNET SYNCHRONOUS GENERATOR WITH COMPENSATED REACTANCE WINDINGS IN PARALLEL ROD CONFIGURATION**  
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- LXVIII. **A NOVEL VARIABLE STEP SIZE MPPT ALGORITHM UNDER FAST VARYING WEATHER CONDITIONS FOR PHOTOVOLTAIC SYSTEMS BASED ARDUINO MICROCONTROLLER**  
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- LXIX. **A STIRLING ENGINE MODELING STUDY FOR SOLAR ENERGY OF PARABOLIC DISH SYSTEMS**  
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- LXXI. **EXTREMUM SEEKING CONTROL USED FOR OPTIMAL OPERATION OF WIND TURBINE UNDER TURBULENT WIND GUSTS**  
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- LXXIV. **The Efficiency Estimation Of 900 MHZ Rf Energy Harvester Using Artificial Neural Network**  
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- LXXVII. **Erasmus Innovative European Studies**  
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- LXXVIII. **Electrical and optical explorations of a new atmospheric plasma device**

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**LXXIX. Piezoelectrics as micro energy devices**

KURT E.

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

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**LXXXI. Implementation of a new piezoelectric wind energy harvester**

ÖZHAN D., UZUN Y., KURT E.

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**LXXXII. EFFECTS OF NONLINEARITIES TO THE PIEZOELECTRIC ENERGY HARVESTERS**

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

GÖR H., KURT E.

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

Güler N., Irmak E., Gör H., Kurt E.

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**LXXXV. Estimation of the Power Generation and Efficiency of a New Axial Flux Permanent Magnet Synchronous Generator Via A Neural Network Algorithm**

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**LXXXVIII. PERFORMANCE ANALYSIS OF THE TRACKING OF THE GLOBAL EXTREME ON MULTIMODAL PATTERNS USING THE ASYMPTOTIC PERTURBED EXTREMUM SEEKING CONTROL SCHEME**

Bizon N., KURT E.

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Lopez Guede J. M., GÖR H., KURT E., Grana M.

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- XCIII. ENERGY DISTRIBUTION OF PARTICLES IN A DEUTERIUM FILLED CONFINEMENT DEVICE**  
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- XCIV. Electromagnetic optimization of a permanent magnet synchronous generator**  
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- XCV. Çok cisim yaklaşımıyla yatay manyetik alan altında parçacıkların davranışı**  
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- XCVII. A New Sweep Up Down Phenomenon between the Chaotic and Regular Regions in a New R2L2D Circuit**  
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- XCVIII. Simulations of Particle Distribution at Moderate Magnetic Field Case in an Inertial Electrostatic Confinement Unit**  
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- XCIX. Waveform characteristics and losses of a new double sided axial and radial flux generator**  
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- C. Exploration of the chaotic behaviour in a buck boost converter depending on the converter and load elements**  
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- CI. OPTIMAL DESIGN AND PERFORMANCE EVALUATION OF HYBRID WIND SOLAR ENERGY SYSTEM FOR POWER GENERATION AND HARMONIC COMPENSATION**  
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- CIII. A numerical real time dynamic tool for piezoelectric beam under magnetic fields**  
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- CXIII. **Control System Approach to the Dynamics of Nonidentical Josephson Junction Systems**  
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- CXIV. **Power Characteristics of a New Contactless Piezoelectric Harvester**  
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- CXVIII. **Power vibration relation for a piezoelectric harvester under magnetic excitation**  
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13th Int. Conf. on Electric Power Systems, High Voltages, Electric Machines, 27 - 29 August 2013
- CXIX. **Electromagnetic analyses of two axial flux permanent magnet generators PMGs**  
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4th International Conference on Power Engineering, Energy and Electrical Drives, Istanbul, Turkey, Turkey, 13 - 17 May 2013, pp.290-294
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- CXXI. **Investigation of Current Harmonics Using FEM on Different Rotor Types of PMSMs**  
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- CXXIII. **Periodic And Aperiodic Dynamics From A Resistively Coupled Nonidentical Superconducting Junction Under Dc Excitations**  
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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
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- Kurt E., Erasmus Project, European Workshop on Renewable Energy Systems, 2013 - 2014

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KURT E., Project Supported by Higher Education Institutions, DÜŞÜK HIZLI RÜZGAR UYGULAMALARI İÇİN ALTERNATÖR TASARIMI VE ROTOR ÜNİTESİNİN YAPIMI, 2011 - 2014  
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## 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., Gör H., Ard nüveli üç fazlı eksenel ve radyal akılı yeni bir jeneratör., Patent, CHAPTER A Human Needs, The Invention Registration Number: 2015 04164 , Standard Registration, 2017  
Kurt E., Kurt H. H., Gör H., TEK FAZLI BİR JENERATÖR, Patent, CHAPTER H Electricity, The Invention Registration Number: 2013 13062 , Standard Registration, 2017  
Kurt E., Uzun Y., Farklı rüzgar hızlarında verimli şekilde elektrik enerjisi üretebilen manyetik piezoelektrik üreteç, Patent, CHAPTER H Electricity, The Invention Registration Number: 2013 14706 , Standard Registration, 2016  
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  
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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: 259

Citation (WoS): 916

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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 çalıştay, 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