

Asst. Prof. KAYHAN ÇELİK

Personal Information

Office Phone: [+90 0312 202 8545](tel:+9003122028545)

Email: kayhancelik@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/kayhancelik>

International Researcher IDs

ScholarID: [_gANv8MAAAAJ](#)

ORCID: [0000-0003-0371-0473](#)

Publons / Web Of Science ResearcherID: [AID-5251-2022](#)

ScopusID: [56779813500](#)

Yoksis Researcher ID: [197035](#)

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2016 - 2020

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2014 - 2015

Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2006 - 2011

Dissertations

Postgraduate, Gradyan uyarlamalı görüntü filtresi tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2015

Research Areas

Electromagnetic, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2013 - Continues

Courses

ANTENLER VE YAYILMA, Undergraduate, 2021 - 2022

Mühendislik Tasarımı, Undergraduate, 2021 - 2022

Mezuniyet Projesi, Undergraduate, 2022 - 2023

Elektromanyetik Alan Teorisi, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A novel circular fractal ring UWB monopole antenna with dual band-notched characteristics

ÇELİK K.

ETRI Journal, vol.46, no.2, pp.218-226, 2024 (SCI-Expanded)

- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- 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, no.1, 2019 (SCI-Expanded)
- VIII. **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)

Articles Published in Other Journals

- I. **Forecasting of monthly electricity generation from the conventional and renewable resources following the corona virus pandemic in Turkey**
Kurt E., Kasap R., Çelik K.
Journal of Energy Systems, vol.6, no.3, pp.420-435, 2022 (Scopus)
- II. **Design and Analysis of Novel Ring UWB Antenna**
Çelik K.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.10, no.2, pp.339-347, 2022 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Design and Simulation of the Miniaturized Dual-Band Monopole Antenna for RFID Applications**
Çelik K.
in: 4th International Conference on Artificial Intelligence and Applied Mathematics in Engineering, D. Jude Hemanth, Tuncay Yigit, Utku Kose, Ugur Guvenc, Editor, Springer, London/Berlin, Mingachevir, pp.176-185, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Design and Preliminary Analysis of a New Electromagnetic Energy Harvester**
Ozcicek T., ÇELİK K., KURT E.
4th IEEE Interdisciplinary Conference on Electrics and Computer, INTCEC 2024, Illinois, United States Of America, 11 - 13 June 2024
- II. **Two-Element MIMO Antenna for UWB Wireless Communications**
KURT E., ÇELİK K., Kaynar E. K.
11. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS Riga/Latvia 18-20 May 2023, Riga, Latvia, 18 May 2023
- III. **Modeling and Simulation of a Hybrid Electromagnetic Accelerator**
KURT E., ÇELİK K., Teksar A. Y., Görmüş H., Özdemir E.
Interdisciplinary Conference on Mechanics, Computers and Electrics - ICMECE, Barselona, Spain, 06 October 2022
- IV. **Design and Analyses of the Novel Circular Fractal UWB Antenna**
Çelik K., Ak H. H., Kurt E.
10. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS , İstanbul, Turkey, 7 - 09 May 2022, pp.1-4
- V. **Design and Simulation of V-Shaped Microstrip Patch Antenna for 2.4 GHz Internet of Things Applications**
ÇELİK K., KURT E.
Interdisciplinary Conference on Mechanics, Computers and Electrics, Turkey, 27 November 2021
- VI. **Design and Implementation of a 2.4 GHz Yagi-Uda Antenna and Dependence of the Antenna Parameters to the Structural Parameters**
Cinay A., KURT E., Celik K.
3rd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2021, Kuala-Lumpur, Malaysia, 12 - 13 June 2021
- VII. **Comparison of the Efficiency Values of the Rectifiers Used in the RF Energy Harvesting Systems**
Çelik K., Kurt E.
9. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, İstanbul, Turkey, 21 - 23 April 2021, pp.701-705
- VIII. **A CLASSIFICATION TOOL FOR THE MOTION OF A PIEZOELECTRIC ENERGY HARVESTER VIA NEURAL NETWORK**
KURT E., TEKEREK M., ÇELİK K., gök m.
8. European Conference on Renewable Energy Systems, İstanbul, Turkey, 24 - 25 August 2020
- IX. **COMPARISON OF TWO MULTICONE ANTENNAS FOR RADIOFREQUENCY ENERGY HARVESTING**
tariq M. h., KURT E., ÇELİK K.
2nd International Turkish World Engineering and Science Congress, Turkey, 7 - 10 November 2019
- X. **Comparison of two multicone antennas for radio frequency energy harvesting**
tariq H. M., KURT E., ÇELİK K.
2. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019
- XI. **A Novel Wideband Circular Fractal Antenna for Energy Harvesting Applications**
ÇELİK K., KURT E.
International Symposium ISAECT 2019, Roma, Italy, 27 - 29 November 2019
- XII. **Electromagnetic analysis of an axial flux permanent magnet generator**
KURT E., GÖR H., ÇELİK K.
5th International Conference on Power Generation Systems and Renewable Energy Technologies, PGSRET, İstanbul, Turkey, 26 - 27 August 2019
- XIII. **A Novel Super Wideband Circular Fractal Antenna For Energy Harvesting Applications**
ÇELİK K., KURT E.
International Symposium on Advanced Electrical and Communication Technologies (ISAECT), Rome, Italy, 27 - 29 November 2019

- XIV. **A new algorithm for the coloured image encryption via the modified Chua'xxs circuit**
arpacı b., KURT E., ÇELİK K.
International Conference on Cyber Security and Computer Science, 18 - 20 October 2018
- XV. **Electromagnetic Design of a New 3.5 kW Axial Flux Permanent Magnet Generator**
KURT E., GÖR H., ÇELİK K., ÇETİN Y.
THE 6TH EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, İstanbul, Turkey, 25 - 27 June 2018,
pp.1358-1368
- XVI. **Design and Simulation of the Antenna for RF Energy Harvesting Systems**
ÇELİK K., KURT E.
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018,
pp.148-150
- XVII. **Can Non-identical Josephson Junctions be synchronized?**
ÇELİK K., KURT E., Stork M.
58th IEEE International Scientific Conference on Power and Electrical Engineering of Riga-Technical-University
(RTUCON), Riga, Latvia, 12 - 13 October 2017
- XVIII. **THE MODELLING AND SIMULATION OF A PIEZOELECTRIC BEAM UNDER A PERIODIC MAGNETIC
EXCITATION**
ÇELİK K., KURT E., UZUN Y.
ECRES 2016 European Conference on Renewable Energy Systems, 28 - 24 August 2016
- XIX. **A New Image Encryption Algorithm Based on Lorenz System**
ÇELİK K., KURT E.
8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 30
June - 02 July 2016
- XX. **Gradient Adaptive Gaussian Image Filter**
ÇELİK K., SAYAN H. H., DEMİRCİ R.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,
pp.879-882

Supported Projects

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

Metrics

Publication: 31

Citation (WoS): 74

Citation (Scopus): 104

H-Index (WoS): 4

H-Index (Scopus): 5