Asst. Prof. VELİ TAYFUN KILIÇ

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-5804-2021

Yoksis Researcher ID: 277886

Research Areas

Communication Engineering, Micro and Nano Communication, Sattelite Communication, Electrical and Electronics Engineering, Electronic, Electromagnetic, Energy, Electrical and Magnetic Properties, Avionics, Engineering and Technology

Courses

ANTENNAS, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

SENIOR DESIGN PROJECT CAPSULE I, Undergraduate, 2021 - 2022, 2020 - 2021

BIOMEDICAL ELECTRONICS AND MEASUREMENT, Undergraduate, 2021 - 2022

MSC THESIS, Postgraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019

UNDERGRADUATE RESEARCH PROJECT II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

INTRODUCTION TO PROGRAMMING, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

PHD SPECIAL TOPICS, Doctorate, 2021 - 2022

PHD THESIS, Doctorate, 2021 - 2022

MSC SPECIAL TOPICS, Postgraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019

ANTENNAS, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018

WORKPLACE EXPERIENCE, Undergraduate, 2020 - 2021, 2019 - 2020

UNDERGRADUATE RESEARCH PROJECT III, Undergraduate, 2021 - 2022, 2020 - 2021

MICROWAVE ENGINEERING, Postgraduate, 2021 - 2022

HIGH-FREQUENCY SYSTEM DESIGN CAPSULE, Undergraduate, 2021 - 2022

SENIOR DESIGN PROJECT CAPSULE II, Undergraduate, 2021 - 2022, 2020 - 2021

 $PERSONAL\ AND\ PROFESSIONAL\ DEVELOPMENT\ I,\ Undergraduate,\ 2020\ -\ 2021$

UNDERGRADUATE RESEARCH PROJECT I, Undergraduate, 2021 - 2022

UNDERGRADUATE RESEARCH PROJECT IV, Undergraduate, 2020 - 2021

SUSTAINABILITY, Undergraduate, 2020 - 2021

SENIOR PROJECT II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

SENIOR PROJECT I, Undergraduate, 2019 - 2020, 2018 - 2019

ENGINEERING ELECTROMAGNETICS, Undergraduate, 2019 - 2020, 2018 - 2019

PERSONAL AND PROFESSIONAL DEVELOPMENT II, Undergraduate, 2019 - 2020

COMPUTER TOOLS FOR ELECTRICAL-ELECTRONICS ENGINEERING, Undergraduate, 2018 - 2019

CALCULUS II FOR ELECTRICAL-ELECTRONICS ENGINEERING, Undergraduate, 2018 - 2019

ELECTRONICS II, Undergraduate, 2018 - 2019

Jury Memberships

Doctorate, Doctorate, Erciyes Üniversitesi, June, 2021

Post Graduate, Post Graduate, Erciyes Üniversitesi, February, 2021

Post Graduate, Post Graduate, Abdullah Gül Üniversitesi, December, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. Crown shaped edge multiband antenna design for 5G and X-Band applications

Hakanoglu B. G., KILIÇ V. T., ALTINDİŞ F., TÜRKMEN M.

Wireless Networks, vol.29, no.7, pp.3255-3270, 2023 (SCI-Expanded)

II. Study of helical antenna endowing short wire length and compact structure for high-frequency operations and its exclusive manufacturing process

Aslan M., Şik K., Güzelkara I., Özdür I. T., Kiliç V. T.

Turkish Journal of Electrical Engineering and Computer Sciences, vol.31, no.2, pp.396-411, 2023 (SCI-Expanded)

III. Design and analysis of low profile and low SAR full-textile UWB wearable antenna with metamaterial for WBAN applications

Yalduz H., TABARU T. E., Kilic V. T., TÜRKMEN M.

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.126, 2020 (SCI-Expanded)

IV. High-efficiency flow-through induction heating

KILIÇ V. T., Unal E., DEMİR H. V.

IET POWER ELECTRONICS, vol.13, no.10, pp.2119-2126, 2020 (SCI-Expanded)

V. All-Surface Induction Heating With High Efficiency and Space Invariance Enabled by Arraying Squircle Coils in Square Lattice

Kilic V. T., Unal E., Yilmaz N., DEMİR H. V.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.64, no.3, pp.339-347, 2018 (SCI-Expanded)

VI. Coupling and power transfer efficiency enhancement of modular and array of planar coils using inplane ring-shaped inner ferrites for inductive heating applications

Kilic V. T., Unal E., Demir H. V.

JOURNAL OF APPLIED PHYSICS, vol.122, no.1, 2017 (SCI-Expanded)

VII. Inductance and resistance measurement method for vessel detection and coil powering in all-surface inductive heating systems composed of outer squircle coils

Kilic V. T., Unal E., Demir H. V.

AIP ADVANCES, vol.7, no.5, 2017 (SCI-Expanded)

VIII. Strongly Coupled Outer Squircle-Inner Circular Coil Architecture for Enhanced Induction Over Large Areas

Kilic V. T., Unal E., Gonendik E., Yilmaz N., Demir H. V.

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.63, no.12, pp.7478-7487, 2016 (SCI-Expanded)

IX. Wireless Metal Detection and Surface Coverage Sensing for All-Surface Induction Heating

Kilic V. T., Unal E., Demir H. V.

SENSORS, vol.16, no.3, 2016 (SCI-Expanded)

X. Optical antenna of comb-shaped split ring architecture for increased field localization in NIR and MIR

Kilic V. T., Erturk V. B., Demir H. V.

OPTICS EXPRESS, vol.21, no.24, pp.29455-29461, 2013 (SCI-Expanded)

XI. Three-dimensional study of planar optical antennas made of split-ring architecture outperforming

dipole antennas for increased field localization

Kilic V. T., Erturk V. B., Demir H. V.

OPTICS LETTERS, vol.37, no.2, pp.139-141, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. Strand wire winding method in a solenoidal coil with limited geometry for good impedance matching KILIÇ V. T.

Archives of Electrical Engineering, vol.72, no.1, pp.239-252, 2023 (ESCI)

II. Design of Wavelength Selectively Metamaterial Antenna for Thermal Camouflage

Şanlı A. K., Tabaru T. E., Kılıç V. T.

The European Journal of Research and Development, vol.2, no.4, pp.90-97, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Comb-Shaped Patch Antenna Design Study with Shifted Arms and Asymmetric Architecture Enabling Controlled Resonance Change and Radiation Pattern

Aslan M., Baydar H., KILIÇ V. T.

2022 IEEE International Conference on Electronics, Computing and Communication Technologies, CONECCT 2022, Bangalore, India, 8 - 10 July 2022

II. Design of a Portable DF System with Simple and Compact Structure Operating at 875 Mhz GSM Band Uludag M., Ozoksuzkaya A., KILIÇ V. T.

2021 International Conference on Circuits, Controls and Communications, CCUBE 2021, Bangalore, India, 23 - 24 December 2021

III. Single and Double Side Comb-Shaped Patch Antenna Design Evolved from Rectangular Shape for Reduced Sized Antenna Applications

Baydar H., Aslan M., KILIÇ V. T.

2020 International Conference on Radar, Antenna, Microwave, Electronics, and Telecommunications (ICRAMET), Tangerang, Indonesia, 18 November 2020, pp.28-33

IV. Comparative study of solar cell energy harvesting with non-rotating and rotating platforms imitating sun tracking and non-tracking applications

Öztürk G., Chintu D., KILIÇ V. T.

2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020), Gaziantep, Turkey, 07 October 2020, pp.493-499

V. Magnetic Field Calculation of Square Coils Having Rounded Corners

Erman M. F., KILIÇ V. T.

2019 1st Global Power, Energy and Communication Conference (GPECOM), Nevşehir, Turkey, 12 June 2019, pp.212-215

VI. An easy method for vessel detection and coil powering in all- surface inductive heating systems Kilic V. T.

61st Annual Conference on Magnetism and Magnetic Materials, Louisiana, United States Of America, 31 October - 04 November 2016

VII. Novel Optical Antenna Designs of Comb Shaped Split Ring Architecture for NIR and MIR Enhanced Field Localization

Kilic V. T., Erturk V. B., Demir H. V.

27th IEEE Photonics Conference (IPC), California, United States Of America, 12 - 16 October 2014, pp.318-319

Kılıç V. T., Güngör M. E., Aslan M., TUBITAK Project, 1.9-2.0 GHZ GSM FREKANS BANDINDA ÇALIŞAN ANTEN VE BANT GEÇİREN FİLTRE TASARIMI, 2021 - 2022

Kılıç V. T., Özöksüzkaya A., Uludağ M., Başer E., TUBITAK Project, GSM Direction Finding, 2020 - 2021

Patent

Demir H. V., Kılıç V. T., Ünal E., Polat Çakar D., Küçükcoşkun B., Ünlüsoy M., Bayraktar S., İÇTEN AKIŞLI TİPTE BİR İNDÜKTİF ISITICI, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2019 12644, Standard Registration, 2023

Demir H. V., Ünal E., Gönendik E., Oktay U., Yılmaz N., Öztürk M., Kılıç V. T., BİR İNDÜKTİF BOBİN BİRİMİ, Patent, CHAPTER H Electricity, The Invention Registration Number: 2015 15179, Standard Registration, 2021

Demir H. V., Kılıç V. T., Ünal E., İLETKEN KATMANLAR İÇEREN İNDÜKTİF BOBİN BİRİMİ, Patent, CHAPTER H Electricity, The Invention Registration Number: EP3536123B1, Standard Registration, 2020

Scientific Refereeing

Archives of Electrical Engineering, Journal Indexed in ESCI, January 2023

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, Journal Indexed in SCI-E, September 2022

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, Journal Indexed in SCI-E, March 2022

IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, SCI Journal, August 2021

IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, June 2021

ACADEMİC PLATFORM-JOURNAL OF ENGİNEERİNG AND SCİENCE, National Scientific Refreed Journal, May 2021

IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, October 2020

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, July 2020

PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, June 2020

1st International Conference on Electrical Engineering and Technologies (ElectriTek 2020), Conference Paper (Full Text), March 2020

IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, December 2019

IET POWER ELECTRONICS, SCI Journal, June 2019

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, January 2019

IEEE TRANSACTIONS ON POWER ELECTRONICS, SCI Journal, December 2018

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, October 2017

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, April 2016

Tasks In Event Organizations

Kılıç V. T., SIU - 2023 - 31th IEEE CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS, Scientific Congress, Turkey, Temmuz 2023

Kılıç V. T., SIU 2022 - The 30th IEEE CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS, Scientific Congress, Turkey, Mayıs 2022

Metrics

Publication: 20 Citation (WoS): 59 Citation (Scopus): 93 H-Index (WoS): 5 H-Index (Scopus): 5