

## Assoc. Prof. SİBEL YENİKAYA

### Personal Information

Office Phone: [+90 294 203 1](tel:+902942031)

Email: [sguler@uludag.edu.tr](mailto:sguler@uludag.edu.tr)

Web: <https://avesis.uludag.edu.tr/sguler>

### International Researcher IDs

ORCID: 0000-0002-9423-1752

ScopusID: 26323397900

Yoksis Researcher ID: 156675

### Advising Theses

Yenikaya S., Design, implementation and optimization of substrate integrated waveguide filters to be used in microwave frequencies, Doctorate, K.GÜVENLİ(Student), 2022

Yenikaya S., Elektrikli araçlar için grafen tabanlı elektromanyetik ekran modellenmesi, Doctorate, S.GÜLER(Student), 2022

Yenikaya S., PARÇACIK SÜRÜ OPTİMİZASYONU (PSO) KULLANILARAK ELEKTRİK SOLİTON ÜRETEÇ TASARIMI, ANALİZİ VE GERÇEKLEMESİ, Postgraduate, A.AKSOY(Student), 2022

YENİKAYA S., Analysis and determination of design optimization steps of an industrial microwave oven, Postgraduate, S.Ali(Student), 2018

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dual-Band 2 x 1 Monopole Antenna Array and Its MIMO Configuration for WiMAX, Sub-6 GHz, and Sub-7 GHz Applications**  
Iriqat S., YENİKAYA S., Secmen M.  
ELECTRONICS, vol.13, no.8, 2024 (SCI-Expanded)
- II. **A review of substrate integrated waveguide (SIW) filter architecture and filter design technologies**  
**Yüzey tümleşik dalga kılavuzu (YTD) filtre mimarisi incelemesi ve filtre tasarım teknolojileri**  
Güvenli K., YENİKAYA S., Seçmen M.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.2, pp.1333-1349, 2024 (SCI-Expanded)
- III. **A Parallel Connected Hybrid Microstrip-Substrate Integrated Waveguide Bandstop Filter**  
Güvenli K., Yenikaya S., Seçmen M.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.29, no.6, pp.26-32, 2023 (SCI-Expanded)
- IV. **Soliton wave parameter estimation with the help of artificial neural network by using the experimental data carried out on the nonlinear transmission line**  
AKSOY A., YENİKAYA S.  
CHAOS SOLITONS & FRACTALS, vol.169, 2023 (SCI-Expanded)
- V. **Improving the shielding effectiveness of a rectangular enclosure by optimizing aperture and coating with graphene sheet**  
Guler S., YENİKAYA S.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.36, no.17, pp.2567-2581, 2022 (SCI-Expanded)
- VI. **Analysis, design, and actual fabrication of a hybrid microstrip-SIW bandpass filter based on**

#### **cascaded hardware integration at X-band**

Guvenli K., YENİKAYA S., Secmen M.

Elektronika ir Elektrotehnika, vol.27, no.1, pp.23-28, 2021 (SCI-Expanded)

- VII. **Analysing the shielding effectiveness of graphene sheet coated rectangular enclosure**  
Guler S., YENİKAYA S.  
ELECTROMAGNETICS, vol.41, pp.469-485, 2021 (SCI-Expanded)
- VIII. **Analysis of shielding effectiveness by optimizing aperture dimensions of a rectangular enclosure with genetic algorithm**  
Güler S., YENİKAYA S.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, no.2, pp.1015-1028, 2021 (SCI-Expanded)
- IX. **Design optimization using dielectric slab for efficient microwave heating**  
Mekonnen S. A., YENİKAYA S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.3055-3064, 2019 (SCI-Expanded)
- X. **Keeping the Vehicle on the Road - A Survey on On-Road Lane Detection Systems**  
YENİKAYA S., YENİKAYA G., Duven E.  
ACM COMPUTING SURVEYS, vol.46, no.1, 2013 (SCI-Expanded)
- XI. **Hybrid MoM/FEM Modeling of Loaded Enclosure with Aperture in EMC Problems**  
Yenikaya S., Akman A.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.19, no.2, pp.204-210, 2009 (SCI-Expanded)

#### **Articles Published in Other Journals**

- I. **MICROSTRIP PATCH ANTENNA DESIGN WITH ENHANCED RADIATION EFFICIENCY FOR 5G 60 GHZ MILLIMETER-WAVE SYSTEMS**  
Irgat S., Yenikaya S.  
Uludağ University Journal of The Faculty of Engineering, vol.29, no.1, pp.101-112, 2024 (Peer-Reviewed Journal)
- II. **Parametric study on shielding effectiveness of graphene based bilayer structure**  
Güler S., Yenikaya S.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.29, no.2, pp.151-157, 2023 (Peer-Reviewed Journal)
- III. **Design and Optimization of Hybrid Microstrip-SIW Bandpass Filter on X-Band**  
Güvenli K., Yenikaya S., Seçmen M.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.27, no.1, pp.219-236, 2022 (Peer-Reviewed Journal)
- IV. **SOLITON WAVE GENERATION ON NONLINEAR TRANSMISSION LINES USING A PARTICLE SWARM OPTIMIZATION (PSO) ALGORITHM**  
Aksoy A., Yenikaya S.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.27, no.1, pp.389-402, 2022 (Peer-Reviewed Journal)
- V. **Shielding Effectiveness Analysis of Electronic Equipment Protection Box**  
Güler S., Yenikaya S., Yılmaz G.  
Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.25, no.3, pp.1445-1458, 2020 (Peer-Reviewed Journal)
- VI. **AÇIKLIĞA SAHİP METALİK KUTULARIN ZAMAN DOMENİ SONLU ELEMANLAR YÖNTEMİ(TDFEM) İLE ANALİZİ**  
KAŞ K., YENİKAYA S., TOZAN M.  
Uludağ University Journal of The Faculty of Engineering, vol.23, no.3, pp.143-154, 2018 (Peer-Reviewed Journal)
- VII. **Numerical and Experimental Analysis of the Heating Performance of a Microwave Applicator Loaded with Sludge Material**  
Mekonnen S. A., YENİKAYA S., YENİKAYA G.

JOURNAL OF HAZARDOUS TOXIC AND RADIOACTIVE WASTE, vol.22, no.4, 2018 (ESCI)

VIII. **Microwave Drying of Automotive Industry Paint Sludge**

YENİKAYA S., SALİHOĞLU G., SALİHOĞLU N. K., YENİKAYA G.

JOURNAL OF HAZARDOUS TOXIC AND RADIOACTIVE WASTE, vol.22, no.4, 2018 (ESCI)

IX. **Effects of dielectric properties of the material located inside multimode applicator on microwave efficiency**

Mekonnen S. A., YENİKAYA S., YENİKAYA G., YILMAZ G.

Advances in Science, Technology and Engineering Systems, vol.3, no.3, pp.61-66, 2018 (Scopus)

X. **An Efficient Hybrid MoM/FEM Method for Analyzing the Enclosures With Apertures**

YENİKAYA S.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.17, no.3, pp.117-122, 2011 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

I. **The Effect of PCB Design Optimization in DC-DC Converters to Signal Integrity**

Pekbey B., Çoşkun O., Yenikaya S.

4th International Symposium of Scientific Research and Innovative Studies (ISSRIS'24), Balıkesir, Turkey, 13 - 16 March 2024, pp.583-585

II. **Optimization of Decoupling Capacitors with Brute Force Algorithm for Conducted Emission Control in DC-DC Buck Converter**

Çoşkun O., Yenikaya S., Yılmaz G.

4th International Symposium of Scientific Research and Innovative Studies (ISSRIS'24), Balıkesir, Turkey, 13 - 16 March 2024, pp.452-454

III. **Güvenli K., Yenikaya S., Seçmen M.**

URSI-TÜRKİYE 2023 XI. Bilimsel Kongresi, İstanbul, Turkey, 31 August - 02 September 2023, pp.1-3

IV. **YERE NÜFUZ EDEN RADAR UYGULAMARI İÇİN YÜKSEK KAZANÇLI ANTEN TASARIMI VE ANALİZİ**  
ŞÖLEN A., YENİKAYA S.

10.ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 24 December 2022

V. **Parameter estimation for nonlinear transmission line design using the artificial neural network model**

AKSOY A., YENİKAYA S.

4th International Engineering Research Symposium, Düzce, Turkey, 23 February 2022

VI. **RF Soliton Wave Design on Nonlinear Transmission Lines**

Aksoy A., Yenikaya S.

X. URSI-TÜRKİYE 2021 BİLİMSEL KONGRESİ, Kocaeli, Turkey, 7 - 09 September 2021

VII. **USE OF GRAPHENE AND SILVER BASED RESONATORS IN ENERGY HARVEST DESIGNS**

Teker A., Yenikaya S.

International Marmara Sciences Congress (Spring) 2021, Kocaeli, Turkey, 21 - 22 May 2021, pp.224-229

VIII. **Analysis of EMC problems in electric vehicles**

Güler S., Yenikaya S., Yılmaz G.

8th International Symposium on Innovative Technologies in Engineering and Science (ISITES2020), Bursa, Turkey, 23 - 25 October 2020, vol.3, no.1, pp.98-104

IX. **The Modular Design of M-SIW Wideband Band-stop Filter**

Güvenli K., Yenikaya S., Secmen M., Turkmen C.

2020 IEEE Ukrainian Microwave Week, UkrMW 2020, Virtual, Kharkiv, Ukraine, 21 - 25 September 2020, pp.1079-1082

X. **Sewage sludge drying with microwave irradiation: Influence of salt addition and energy consumption**  
SALİHOĞLU G., YENİKAYA S., SALİHOĞLU N. K., YENİKAYA G.

Heraklion 2019: 7th International Conference on Sustainable Solid Waste Management, Heraklion, Greece, 26 - 29

June 2019

- XI. **EMC Design for Battery Electric Vehicle (BEV) Propulsion System**  
Guler S., YENİKAYA S., Simsek M.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.286-289
- XII. **Simetrik Pencereleli Yüzey Tümlleşik Dalga Kılavuzu Filtre Tasarımı**  
Güvenli K., Yenikaya S.  
URSI-TÜRKİYE'2018 IX. Bilimsel Kongresi, Konya, Turkey, 6 - 08 September 2018
- XIII. **Kaynak hücrelerinde endüstri 4.0 uygulamaları**  
YENİKAYA G., YENİKAYA S., Hüseyin Uğur H.  
18th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION, 3 - 06 July 2018
- XIV. **Mikrodalga Işımayla Kurutulan Arıtma Çamurlarında Patojenlerin Yeniden Büyümesinin İncelenmesi**  
mersinli h., ÇALIŞKAN ELEREN S., YENİKAYA S., SALİHOĞLU G., SALİHOĞLU N. K.  
Uluslararası Su ve Çevre Kongresi, 22 - 24 March 2018
- XV. **Arıtma Çamurlarının Mikrodalga Teknolojisiyle Kurutulması**  
yaman ö., tuluç t., şenoğlu i., YENİKAYA S., ÇALIŞKAN ELEREN S., SALİHOĞLU N. K., SALİHOĞLU G.  
Uluslararası Su ve Çevre Kongresi, 22 - 24 March 2018
- XVI. **Mikrodalga Uygulamalarının Arıtma Çamurlarındaki Patojen Giderimine Etkisinin Belirlenmesi**  
Kalgan B., İzgör G., ÇALIŞKAN ELEREN S., YENİKAYA S., SALİHOĞLU N. K., SALİHOĞLU G.  
Uluslararası Su ve Çevre Kongresi, 22 - 24 March 2018
- XVII. **Design and Implementation of Substrate Integrated Waveguide Filter to Work on X-Band and Ku-Band**  
Güvenli K., YENİKAYA S., SEÇMEN M.  
9th International Conference on Ultrawideband and Ultrashort Impulse Signals (UWBUSIS), Odesa, Ukraine, 4 - 07 September 2018, pp.198-200
- XVIII. **MICROWAVE ABSORBER DESIGN IN LAYERED STRUCTURE USING DIFFERENTIAL EVOLUTIONARY ALGORITHM**  
YENİKAYA S., YENİKAYA G., Çoşkun A., Tozan M.  
INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGIES, ICENTE'17., Konya, Turkey, 7 - 09 December 2017, pp.339-343
- XIX. **Microwave Drying of Sewage Sludge from a Wastewater Treatment Plant in Turkey**  
SALİHOĞLU G., YENİKAYA S., SALİHOĞLU N. K., YENİKAYA G.  
5th International Conference on Sustainable Solid Waste Management, Atina, Greece, 21 - 24 June 2017
- XX. **Effects of Sample's Dielectric Property on the Performance of Microwave Heating**  
Mekonnen S. A., YENİKAYA S., YENİKAYA G., YILMAZ G.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1440-1443
- XXI. **Effect of the load-openings on the industrial microwave applicators**  
Oktay A., YENİKAYA S., Akman A.  
12th International Conference on Microwave and High Frequency Heating, AMPERE 2009, Karlsruhe, Germany, 7 - 10 September 2009, pp.356-359
- XXII. **Validation of MOM/FEM in Modelling Studies of Loaded Enclosures With Apertures**  
Yenikaya S.  
IEEE International Symposium on Electromagnetic Compatibility, Michigan, United States Of America, 18 - 22 August 2008, pp.60-64
- XXIII. **Endüstriyel Malzemelerin Nemlilik Oranının Mikrodalga Tekniğiyle Tayini**  
AKMAN A., YENİKAYA S., SÜLE O., OKTAY A.  
ELECO2002 ELEKTRİK - ELEKTRONİK - BİLGİSAYAR MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 18 - 22 December 2002, pp.193-196

## **Metrics**

Publication: 44

Citation (WoS): 111

Citation (Scopus): 166

H-Index (WoS): 4

H-Index (Scopus): 6