

2021-2022

SCI, SSCI, AHCI Kapsamındaki Yayınlar:

A. K. Gorur, **E. Dogan**, G. Ayas, C. Karpuz and A. Gorur, "Multibit Chipless RFID Tags Based on the Transition Among Closed- and Open-Loop Resonators," in *IEEE Transactions on Microwave Theory and Techniques*, vol. 70, no. 1, pp. 101-111, Jan. 2022, doi: 10.1109/TMTT.2021.3122795.

A. K. Gorur, **E. Dogan** and A. GORUR, "Quintuple-mode wideband bandpass filter based on stub-loaded circular resonator," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 32, no. 1, e22927, Jan. 2022, doi.org/10.1002/mmce.22927.

A. K. Gorur, A. Turkeli, M. Buyuktuna, **E. Dogan**, C. Karpuz and A. Gorur, "A high isolation quad-channel microstrip diplexer based on codirectional split ring resonators," *Microwave and Optical Technology Letters*, vol. 64, no. 8, pp. 1382-1386, August 2022, doi.org/10.1002/mop.33298.

Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitaplarında Basılan Bildiriler:

Karpuz, C., Ozdemir, P. O., Senol, H., **Cengiz, A.**, Balik, H. H., & Gorur, A. (2022, April). A Novel Concept in Design of Microwave Planar Dual Band Filter having the Controllable Closed/Isolated Bands by Using the Simple Vias and the Slow Wave Effect for 5G/IoT Applications. In 2021 51st European Microwave Conference (EuMC) (pp. 385-388). Ieee
BOYAR AYDIN, KABALCI ERSAN, KABALCI YASİN.,(2022)."MRAS Based Model Predictive Torque Control of Induction Motor Drive for Electric Vehicles", 2022 4th Global Power, Energy and Communication Conference (GPECOM), Nevşehir, TÜRKİYE, 14.06.2022-17.06.2022.

Karaman, Merve, and Salim Çınar. "Automatic detection of kidneys on abdominal CT images using Aggregate Channel Features." 2022 International Conference on INnovations in Intelligent SysTems and Applications (INISTA). IEEE, 2022.

MUTLU URAL, KABALCI YASİN.,(2021)."Performance Analyses of Hybrid-ARQ in Fifth Generation New Radio", 2021 3rd Global Power, Energy and Communication Conference (GPECOM), Antalya, TÜRKİYE, 05.10.2021-08.10.2021.

MUTLU URAL, KABALCI YASİN.,(2021)."Investigation of Polar Codes in Fifth Generation New Radio Control Channels", 2021 3rd Global Power, Energy and Communication Conference (GPECOM), Antalya, TÜRKİYE, 05.10.2021-08.10.2021

MUTLU URAL, KABALCI YASİN.,(2022)."Channel Estimation In Intelligent Reflecting Surfaces for 5G and Beyond", 2022 4th Global Power, Energy and Communication Conference (GPECOM), Nevşehir, TÜRKİYE, 14.06.2022-17.06.2022. 10.10.2023 17:06:17

MUTLU URAL, KABALCI YASİN.,(2022)."Deep Learning Aided Channel Estimation Approach for 5G Communication Systems", 2022 4th Global Power, Energy and Communication Conference (GPECOM), Nevşehir, TÜRKİYE, 14.06.2022-17.06.2022.

Durukan, T. ve Altuncu, Y. (2022). WiMAX, 6 GHz-Altı 5G, C-bandı ve X-bandı uygulamaları için ultrageniş bantlı çok-girişli çok-çıkışlı anten tasarımı., IV. International Turkic World Congress On Science And Engineering (TURK-COSE 2022)., Niğde-Türkiye, June 2022, 139-147.

Turkeli, A., Gorur, A.K. and Altuncu, Y. (2022). Design of a Novel Dual-Wideband Filtenna., 2022 *Microwave Mediterranean Symposium (MMS)*, Pizzo Calabro, Italy, May 2022, pp. 1-4. DOI: 10.1109/MMS55062.2022.9825543.

Yazılan Uluslararası Kitaplardaki Bölümler:

KABALCI ERSAN, **BOYAR AYDIN**, KABALCI YASİN., (2021)."Pulse width modulation and control methods for multilevel inverters", içinde Kabalci Ersan(Ed.), Multilevel Inverters: Control Methods and Advanced Power Electronic Applications (Chapter 1: Pulse width modulation and control methods for multilevel inverters) , Academic Press, ss.1-33.

KABALCI ERSAN, **BOYAR AYDIN**, KABALCI YASİN., (2021)."Centralized power generation", içinde Kabalci Ersan(Ed.), Hybrid Renewable Energy Systems and Microgrids (Chapter 2: Centralized power generation), Academic Press, ss.47-72.

Ulusal Hakemli Dergilerde Yayımlanan Makaleler:

Karaman, Merve, and Salim ÇINAR. "Abdominal bilgisayarlı tomografi görüntülerinde böbrek taşlarının sınırlarının ve sayılarının görüntü işleme yöntemleri kullanılarak tespiti." Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi 11.1 (2022).

Karaca, Z., Korkmaz, N., Altuncu, Y. ve Kılıç, R. (2021). Kimyasal Kuplajlı Izhikevich Nöron Modelinin Lyapunov Kontrol Metodu ile Senkronizasyonu. Avrupa Bilim ve Teknoloji Dergisi, Ejosat Special Issue, pp. 736-740, Dec. 2021 (RDCONF). DOI: 10.31590/ejosat.1042337.

SCI, SSCI, AHCI Kapsamındaki Yayınlar:

E. Dogan, A. K. Gorur and A. GORUR, "Novel flexible chipless RFID tags based on five state resonators," *Journal of Electromagnetic Waves and Applications*, vol. 37 no. 16, pp. 1317-1329, Jul. 2023,doi:[10.1080/09205071.2023.2239806](https://doi.org/10.1080/09205071.2023.2239806).

E. Dogan, A. K. Gorur and A. Gorur, "Novel Chipless RFID Tags Using Eight State Triple-Mode Resonators," in *IEEE Access*, vol. 11, pp. 107429-107440, Sept. 2023, doi: 10.1109/ACCESS.2023.3320108.

Ersan Kabalci, Yasin Kabalci & **Aydın Boyar**. (2023) Comparison of Model Predictive Torque Control Based NPC and ANPC Inverters for IM Drive. Comparison of Model Predictive Torque

Control Based NPC and ANPC Inverters for IM Drive.
<https://doi.org/10.1080/15325008.2023.2211581>

Kabalci, Yasin, **Mustafa Ahmadi**, and **Muhammad Ali**. "Optimal hybrid precoder design for millimeter-wave massive MIMO systems." *Computers and Electrical Engineering* 99 (2022): 107746.

Durukan, T. and Altuncu, Y. (2023). A compact 4×4 reconfigurable MIMO antenna design with adjustable suppression of certain frequency bands within the UWB frequency range., *AEU - International Journal of Electronics and Communications*., Vol. 170, 2023, 154848, ISSN 1434-8411. DOI: <https://doi.org/10.1016/j.aeue.2023.154848>.

Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitaplarında Basılan Bildiriler:

A. K. Gorur, **E. Dogan**, C. Karpuz and A. Gorur, "Novel Multi-Resonator Circuits for Chipless RFID Tags Using Asymmetrical Triple-Mode Resonators," *2022 IEEE International Conference on RFID (RFID)*, Las Vegas, NV, USA, 2022, pp. 114-119, doi: 10.1109/RFID54732.2022.9795962.

Karpuz, C., Gorur, A. K., Cakir, M., **Cengiz, A.**, & Gorur, A. (2023, January). Compact Wilkinson Power Dividers Based on Narrow Slits Loaded Transmission Lines. In *2023 IEEE Radio and Wireless Symposium (RWS)* (pp. 174-177). IEEE.

Karpuz, C., Unuk, G. B. F., Ozdemir, P. O., **Cengiz, A.**, & Gorur, A. K. (2023, January). Substrate Integrated Waveguide Balun Bandpass Filter with Controllable Transmission Zeros for C Band Application. In *2023 IEEE Radio and Wireless Symposium (RWS)* (pp. 170-173). IEEE.

Karpuz, C., Ozdemir, P. Ö., Balik, H. H., **Cengiz, A.**, & Görür, A. (2023, January). Compact Half-Mode Triple-Band Bandpass Filter by using Stepped Impedance Resonators with Grounding Via Holes. In *2023 IEEE Radio and Wireless Symposium (RWS)* (pp. 167-169). IEEE.

Ersan Kabalci, Yasin Kabalci and **Aydin Boyar**, "Comparison of Model Predictive Torque Control Based NPC and ANPC Inverters for IM Drive," *2023 5th Global Power, Energy and Communication Conference (GPECOM)*, Nevsehir, Turkiye, 2023, pp. 27-32, doi: 10.1109/GPECOM58364.2023.10175830.

Ilim Erden, Ersan Kabalci and Yasin Kabalci, "Feasibility Analysis of Integrating Single-Phase Electrical Vehicle Charging Stations to Distribution Grid," *2023 5th Global Power, Energy and Communication Conference (GPECOM)*, Nevsehir, Turkiye, 2023, pp. 358-363, doi: 10.1109/GPECOM58364.2023.10175763.

Ural Mutlu and Yasin Kabalci, "Deep Learning Aided Channel Estimation in Intelligent Reflecting Surfaces," *2023 5th Global Power, Energy and Communication Conference (GPECOM)*, Nevsehir, Turkiye, 2023, pp. 513-518, doi: 10.1109/GPECOM58364.2023.10175750.

Durukan, T., Karaca, Z. and Altuncu, Y. (2023). A Design of Compact High-Performance Ultra-Wideband 2×2 MIMO Antenna., V. International Turkic World Congress On Science And Engineering (TURK-COSE 2023)., (15.09.2023 - 17.09.2023) Bishkek – Kyrgyzstan, September 2023.

Akdoğan, R.E. and Altuncu, Y. (2023). Reconstruction of objects buried under rough surfaces using Subspace Optimization Method., V. International Turkic World Congress On Science And Engineering (TURK-COSE 2023)., (15.09.2023 - 17.09.2023) Bishkek – Kyrgyzstan, September 2023.

Türkeli, A., Görür, A.K. and Altuncu, Y. (2023). A Novel Dual-Wideband Four-Port MIMO Filter for Sub-6GHz 5G Communication, European Microwave Week 2023 (17.09.2023 - 22.09.2023) - European Microwave Week 2023.

Yazılan Uluslararası Kitaplardaki Bölümler:

EKabalci, Yasin, and **Ural Mutlu**. "Emerging Communication Technologies for V2X: Standards and Protocols." Smart Grid 3.0: Computational and Communication Technologies. Cham: Springer International Publishing, 2023. 301-329.

Ulusal Hakemli Dergilerde Yayımlanan Makaleler:

Mutlu, Ural, and Yasin KABALCI. "Array gain analyses of MIMO systems in 5G communication systems." Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi (2022): 1-1. Doi: 10.28948/ngumuh.1088264

Uluslararası Hakemli Dergilerde Yayımlanan Makaleler:

M.M. KOSTEN, A. EMLEK, R. YILDIZ and M. BARUT, "Rotor Speed and Load Torque Estimations of Induction Motors via LSTM Network," *Power Electronics and Drives*, vol 8, No. 1, pp. 310-324, September, 2023, DOI: 10.2478/pead-2023-0021