

Lista de lucrări

- Articole în reviste și jurnale

J1. Florin-Silviu Dumitru, Nicoleta Cucu-Laurenciu, Alexandru Mihai Antonescu, Sorin Cotofana, Marius Enachescu, "Design Space Exploration of Current-Starved Ring Oscillators Based on Graphene Nanoribbons," in Romanian Journal of Information Science and Technology (ROMJIST), 2025, Vol. 28, 2, pp. 197-209, ISI WOS:001538680900008. (Q1)

J2. Alexandru Mihai Antonescu, **Florin-Silviu Dumitru** and Marius Enachescu, "The Universal Learning Platform (ULP): A Hybrid IoT-Based Learning Environment for Automatic Device and Circuit Characterization," in IEEE Access, 2025, vol. 13, pp. 45168-45186, 2025, ISI WOS:001447587500001.

J3. Florin-Silviu Dumitru, Nicoleta Cucu-Laurenciu, Alexandru Matei, Marius Enachescu, "Graphene Nanoribbons Based 5-bit Digital-to-Analog Converter," in IEEE Transactions on Nanotechnology (TNANO), 2021, Vol. 20, pp. 248-254, ISSN 1536-125X, ISI WOS:000637526600002. (Q2)

J4. Florin-Silviu Dumitru, Carmen Raluca Ilie, Mircea Bodea, Marius Enachescu, "Exploring the Effect of Segmentation on a 10-bit DAC," in Romanian Journal of Information Science and Technology (ROMJIST), 2021, Vol. 24, 2, pp. 129-142, ISSN 1453-8245, ISI WOS:000668010700001. (Q4)

J5. Șerban Mihalache, **Florin-Silviu Dumitru**, Adriana Florescu, Sever Viorel Pașca, "*Dithering Options for Integrated Relaxation Oscillators*," în Revue Roumaine des Sciences Techniques - Serie Électrotechnique et Énergétique (RRST), București, România, 2017, Vol. 62, 1, pp. 61-67, ISSN 0035-4066, ISI WOS:000399629400011. (Q4)

- Articole pentru conferințe

A1. Florin-Silviu Dumitru, Marius Enachescu, Alexandru Antonescu, Nicoleta Cucu-Laurenciu, Sorin Cotofana, "Ultra-Low-Power Graphene-Nanoribbon-Based Current-Starved Ring Oscillator," în 2024 International Semiconductor Conference (CAS), Sinaia, Romania, 2024, pp. 167-170, ISI WOS:001361909500034.

A2. Florin-Silviu Dumitru, Marius Enachescu, A. M. Antonescu, N. Cucu-Laurenciu and S. D. Cotofana, "Graphene Nanoribbon Based McCulloch-Pitts Neural Network," 2024 IEEE 24th International Conference on Nanotechnology (NANO), Gijon, Spania, 2024, pp. 592-597, ISSN 1944-9399, ISI WOS:001304416400118.

A3. Alexandru Mihai Antonescu, **Florin-Silviu Dumitru** and Marius Enachescu, "A Low-Cost ADALM2000 Hybrid Learning Platform for the Analog Integrated Circuits Curricula," 2024 IEEE Global Engineering Education Conference (EDUCON), Kos Island, Greece, 2024, pp. 1-7, ISI WOS: 001289091100233.

A4 Alexandru Mihai Antonescu, **Florin-Silviu Dumitru** and Marius Enachescu, "Advanced Automatic Device Temperature Characterization for Hybrid STEM Learning," 2024 International Semiconductor Conference (CAS), Sinaia, Romania, 2024, pp. 157-160, ISI WOS:001361909500032.

A5. Florin-Silviu Dumitru, Carmen Raluca Ilie, Marius Enachescu, "Exploring the Effect of Segmentation on INL and DNL for a 10-bit DAC," in Proceedings of the 43rd International Semiconductor Conference (CAS), Sinaia, Romania, 2020, pp. 161-164, ISSN 1545-827X, ISI WOS:000637264600036.

A6. Florin-Silviu Dumitru, Serban Mihalache, Marius Enachescu, "OPAMP's Finite Gain and Slew Rate impact on a 16-bit Sigma Delta ADC Performance: A case study," in Proceedings of the 40th International Semiconductor Conference (CAS), Sinaia, Romania, 2017, pp. 161-164, ISSN 1545-827X, ISI WOS:000425844500034.

A7. Şerban Mihalache, **Florin-Silviu Dumitru**, "*Current-Mode Capacitance Multiplier with Reduced Parasitic Elements*," în Proceedings of the 18th Mediterranean Electrotechnical Conference (MELECON), Limassol, Cyprus, 2016, pp. 1-6, ISBN 978-1-5090-0058-6, ISI WOS:000390719500001.

A8. Florin-Silviu Dumitru, Şerban Mihalache, Gheorghe Brezeanu, "*A CMOS Resistorless Bandgap Reference with Minimized Current Consumption*," în Proceedings of the 38th International Semiconductor Conference (CAS), Sinaia, România, 2015, pp. 289-292, ISBN 978-1-4799-8862-4, ISI WOS:000380566400058.

A9. Şerban Mihalache, Irina Flamaropol, **Florin-Silviu Dumitru**, Lidia Dobrescu, Dragoş Dobrescu, "*Automated Cooling Control System through Peltier Effect and High Efficiency Control using a DC-DC Buck Converter*," în Proceedings of the 38th International Semiconductor Conference (CAS), Sinaia, România, 2015, pp. 281-284, ISBN 978-1-4799-8862-4, ISI WOS:000380566400056.