

**Lista portofoliului de lucrări științifice relevante, elaborate în  
domeniul de doctorat *Inginerie Electrică***

1. **E. Lunca**, S. Vornicu, A. Salceanu, *Numerical and Analytical Analysis of the Low-Frequency Magnetic Fields Generated by Three-Phase Underground Power Cables with Solid Bonding*, Applied Sciences, Vol. 13, No. 10:6328, pp. 1-18, 2023
2. **E. Lunca**, S. Ursache, A. Salceanu, *Computation and Analysis of the Extremely Low Frequency Electric and Magnetic Fields Generated by Two Designs of 400 kV Overhead Transmission Lines*, Measurement, Vol. 124, pp. 197-204, 2018
3. **E. Lunca**, S. Ursache, Andrei Salceanu, *Assessment of Radiofrequency Exposure Levels Generated by WiMAX Base Stations*, Environmental Engineering and Management Journal, Vol. 15, No. 12, pp. 2753-2759, 2016
4. **E. Lunca**, M. Istrate, A. Salceanu, *Comparative Analysis of the Extremely Low-frequency Magnetic Field Exposure from Overhead Power Lines*, Environmental Engineering and Management Journal, Vol. 12, No. 6, pp. 1145-1152, 2013
5. **Eduard Luncă**, Bogdan Constantin Neagu, Silviu Vornicu, capitolul *Finite Element Analysis of Electromagnetic Fields Emitted by Overhead High-Voltage Power Lines*, în volumul *Numerical Methods for Energy Applications* (editori: Naser Mahdavi Tabatabaei, Nicu Bizon), Editura Springer, Cham, 2021, pp. 795-821, ISBN 978-3-030-62190-2
6. **E. Lunca**, S. Vornicu, A. Salceanu, O. Bejenaru, *2D Finite Element Model for computing the electric field strength-rms generated by overhead power lines*, Journal of Physics: Conference Series, Vol. 1065, pp. 1-4, 2018 (SCOPUS, IOP Science)
7. **E. Lunca**, S. Vornicu, I. Pavel, M. Andrusca, *Measurement and Numerical Simulation of the Low-Frequency Electric Field Generated by an Overhead Power Line*, 12<sup>th</sup> International Conference and Exposition on Electrical and Power Engineering – EPE 2022, Iasi, Romania, October 20-22, 2022, pp. 719-722 (IEEE Xplore, SCOPUS)
8. **E. Lunca**, A. Salceanu, S. Ursache, M.A. Anghel, *Evaluation of EMF Exposure from Digital Terrestrial Television Transmitters*, 21<sup>st</sup> IMEKO TC4 International Symposium and 19<sup>th</sup> International Workshop on ADC Modelling and Testing, Budapest, Hungary, September 7-9, 2016, pp. 236-239 (Web of Science, SCOPUS)
9. **E. Lunca**, A. Salceanu, *An Overview of RF-EMF Monitoring Systems and Associated Monitoring Data*, 9<sup>th</sup> International Conference and Exposition on Electrical and Power Engineering – EPE 2016, Iasi, Romania, October 20-22, 2016, pp. 418-421 (Web of Science, IEEE Xplore, SCOPUS)
10. **E. Lunca**, C. Damian, A. Salceanu, *EMF Exposure Measurements on 4G/LTE Mobile Communication Networks*, 8<sup>th</sup> International Conference and Exposition on Electrical and Power Engineering – EPE 2014, Iasi, Romania, October 16-18, 2014, pp. 545-548 (Web of Science, IEEE Xplore, SCOPUS)

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