

LISTA DE LUCRĂRI

Preduş Marius-Florian

a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări

1. **Marius Florian Preduş**, Elisabeta Spunei, Ion Piroi, *A Study on Failure Diagnosis Methods in Power Cables and Their Applications*, International Conference on Applied and Theoretical Electricity ICATE-Craiova, October 6-8, 2016. DOI: 10.1109/ICATE.2016.7754638;
2. **Marius Florian Preduş**, Florin Ionescu, Dorian Anghel, *Insulating oil quality diagnosis in exploitation*, The 10th International Symposium on Advanced Topics in Electrical Engineering, March 23-25, 2017 Bucharest, Romania, DOI:10.1109/ATEE.2017.7905066;
3. **Marius Florian Preduş**, Cristinel Popescu, Eugen Răduca, Cornel Hațiegan, *Study of the Accelerated Degradation of the Insulation of Power Cables under the Action of the Acid Environment*, *Energies* **2022**, MDPI, Basel, Switzerland 15(10), 3550. <https://doi.org/10.3390/en15103550> ;
4. **M F Preduş**, C M Muscai, C Popescu, C Hațiegan, *Computer aided design of low voltage electrical installations*, International Conference on Applied Sciences ICAS 2022, Banja Luka, Bosnia and Herzegovina, May 25-28, 2022, DOI 10.1088/1742-6596/2540/1/012010;
5. **M F Preduş**, C M Muscai, C Popescu, C Hațiegan *The importance of the metal reinforcement of low voltage cables in the process of identifying defects*, International Conference on Applied Sciences ICAS 2022, Banja Luka, Bosnia and Herzegovina, May 25-28, 2022, DOI 10.1088/1742-6596/2540/1/012011;
6. C Hațiegan, N Gillich, C Popescu, E Răduca, L Căndea, **M F Preduş**, I M Terfeloagă, *Study regarding the influence of environmental temperature and irradiation conditions on the performance of a photovoltaic solar module*, International Conference on Applied Sciences (ICAS2017), May 10-12 , Hunedoara, Romania, DOI 10.1088/1757-899X/294/1/012075;
7. Anghel Dorian, Ionescu Florin, **Marius Florian Preduş**, *Ferrite core transformers test stand*, The 10th International Symposium on Advanced Topics in Electrical Engineering, March 23-25, 2017 Bucharest, Romania, DOI: 10.1109/ATEE.2017.7905061;

8. C Hațiegan, Gilbert Rainer Gillich, Ovidiu Vasile, Codruța Hamat, Mihaela Dorica Stroia, **Marius Florian Preduș**, *Improved Mathematical Relation of The Modal Shapes of Thin Rectangular Plates*, Romanian Journal of Acoustics and Vibration, vol.19, No.2 (2022), 157-163;
9. M D Stoia, C Hațiegan, **M F Preduș**, C Muscai, *An automated approach for traffic light control at pedestrian crossings*, 11th International Conference on Applied Sciences (ICAS 2023), Banja Luka, Bosnia and Herzegovina, May 24-27, 2023, DOI 10.1088/1742-6596/2714/1/012006;
10. **Marius Florian Preduș**, Elisabeta Spunei, Ion Piroi, Monica Roșu, *Diagnostic of Defects at Electric Lines in Cable*, International Conference on Electromechanical and Power System, Chișinău 2015;

b) teza de doctorat :

Cercetări privind eficientizarea diagnozei defectelor din liniile electrice în cablu

c) brevete de invenție și alte titluri de proprietate industrială;

NA

d) cărți și capitole în cărți;

1. **Eficientizarea localizării defectelor din cablurile de energie electrică**, Editura Eurostampa, Timișoara, 2023, ISBN 978-606-32-1267-3 .

e) articole/studii publicate în reviste din fluxul științific internațional principal

1. C Hațiegan, Gilbert Rainer Gillich, Ovidiu Vasile, Codruța Hamat, Mihaela Dorica Stroia, **Marius Florian Preduș**, *Improved Mathematical Relation of The Modal Shapes of Thin Rectangular Plates*, Romanian Journal of Acoustics and Vibration, vol.19, No.2 (2022), 157-163;
2. **Marius Florian Preduș**, Cristinel Popescu, Eugen Răduca, Cornel Hațiegan, *Study of the Accelerated Degradation of the Insulation of Power Cables under the Action of the Acid Environment*, *Energies* 2022, MDPI, Basel, Switzerland 15(10), 3550. <https://doi.org/10.3390/en15103550> ;

f) publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. **Marius Florian Preduș**, Elisabeta Spunei, Ion Piroi, *A Study on Failure Diagnosis Methods in Power Cables and Their Applications*, International Conference on Applied and Theoretical Electricity ICATE-Craiova, October 6-8, 2016. DOI: 10.1109/ICATE.2016.7754638;

2. **Marius Florian Preduș**, Florin Ionescu, Dorian Anghel, *Insulating oil quality diagnosis in exploitation*, The 10th International Symposium on Advanced Topics in Electrical Engineering, March 23-25, 2017 Bucharest, Romania, DOI:10.1109/ATEE.2017.7905066;
3. **M F Preduș**, C M Muscai, C Popescu, C Hațiegan, *Computer aided design of low voltage electrical installations*, International Conference on Applied Sciences ICAS 2022, Banja Luka, Bosnia and Herzegovina, May 25-28, 2022, DOI 10.1088/1742-6596/2540/1/012010;
4. **M F Preduș**, C M Muscai, C Popescu, C Hațiegan *The importance of the metal reinforcement of low voltage cables in the process of identifying defects*, International Conference on Applied Sciences ICAS 2022, Banja Luka, Bosnia and Herzegovina, May 25-28, 2022, DOI 10.1088/1742-6596/2540/1/012011;

1. Alte lucrări și contribuții științifice

1. Hațiegan Cornel, Preduș Marius-Florian, Cristinel Popescu, *Effects of acidic water containing tailings on the insulation of electrical cables*, Annals of the „Constantin Brancusi” University of Targu Jiu, Engineering Series , No. 2/2021 ;
2. Marius-Florian Preduș, Cristian-Mircea Muscai, Cornel Hațiegan, *Simulation of electric field lines produced by electric point charges*, *Studia Universitatis Babeș-Bolyai, Engineering 67(1) 2022*, DOI : 10.24193/subbeng.2022.1.20.