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Gradul didactic: Prof. Abil. dr. ing.

Instituția unde este titular: Universitatea Națională de Știință și Tehnologie Politehnica București

Facultatea: Inginerie Electrică

Departamentul: Electrotehnică

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Marilena Stănculescu - *Contribuții la recunoașterea formelor defectelor în defectoscopia magnetică nedistructivă* – Universitatea „Politehnica” din București, Catedra de Electrotehnică, 150 pagini - Conducător științific prof. dr. ing. Ioan Florea Hăntilă.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

Ca1. Emil Cazacu, **Marilena Stănculescu**, Sorin Deleanu, *Advanced electric circuits – selected topics*, Publisher: MATRIX ROM, Bucharest, Romania, 2021 (**160 pagini**), SBN: 978-6+C2406-25-0700-8.

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Cb1. **Marilena STĂNCULESCU**, Răzvan ASANACHE, Lavinia BOBARU, Sorin DELEANU, Dragoș NICULAE, Georgiana REZMERIȚĂ, coordonator Mihai IORDACHE, *Analiza circuitelor analogice utilizând parametrii S și diagrama Smith*, Editura MATRIX ROM, 2022, (**280 pagini**) ISBN: 978-606-25-0771-8.

Cb2. **Marilena Stanculescu**, Lavinia Iordache Bobaru, Dragos Niculae, coordonator Mihai Iordache, *Sisteme de transfer wireless al energiei electromagnetice*, January 2021, Publisher: MATRIX ROM, Bucharest, Romania, 2021, (**144 pagini**), ISBN: ISBN 978 – 606 – 25 – 0623 - 0,621.3.

I. ALTE MATERIALE PUBLICATE (I, D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografii locale/de instituții sau de uz intern)

I1. **Marilena Stanculescu**, Emil Cazacu, Sorin Deleanu, *Fundamentals of Electric circuits*, Editura Matrix Rom, Septembrie 2020, (**150 pagini**), ISBN 978-606-250-5837.

I2. Dragos Niculae, Lavinia Bobaru, **Marilena Stănculescu**, Victor Bucată, Mihai Iordache, Steliana Pușcașu, *Îndrumar de seminar. Teoria circuitelor electrice Curent continuu, curent alternativ*, Editura Printech, București, 2020, ISBN 978-606-23-1066-0, (**109 pagini**), (cod CNCIS 54).

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

- 1 Andrei H., Micu D.D., Gaiceanu M., **Stanculescu M.**, Andrei P.C. (2021) *Advanced Numerical Methods for Equations, Systems Equations and Optimization*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_1, pp. 3-35 (**33 pagini**), indexat **SCOPUS**.
- 2 **Stanculescu M.**, Deleanu S., Andrei P.C., Andrei H., Bobaru L., Iordache M. (2021) *Theoretical Approaches of Finite Elements Method (FEM)*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_3, pp. 61-92(**32 pagini**), indexat **SCOPUS**.
- 3 Andrei Ceclan, Dan D. Micu, Levente Czumbil, Horia Andrei, Marian Gaiceanu, **Marilena Stanculescu**, Paul Cristian Andrei. (2021) *Ill-Posed Inverse Problems in Electrical Engineering Applications*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_9, pp. 235-258 (**24 pagini**), indexat **SCOPUS**.
- 4 Bobaru L., Iordache M., **Stanculescu M.**, Niculae D., Deleanu S. (2021) *Optimization Methods for Wireless Power Transfer*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_20, pp.513-543 (**31 pagini**), indexat **SCOPUS**.
- 5 **Stanculescu M.**, Andrei P.C., Andrei H., Deleanu S., Bobaru L. (2021) *Numerical Assessment of Electromagnetic Energy and Forces in Non-destructive Measurement Devices*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_21, pp. 554-577 (**24 pagini**), indexat **SCOPUS**.
- 6 Deleanu S., **Stanculescu M.**, Niculae D., Andrei P.C., Bobaru L., Andrei H. (2021) *Optimal Integration of Electric Vehicles in Smart Grid Energy Flow*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_22, pp.579-619 (**41 pagini**), indexat **SCOPUS**.
- 7 Andrei H., Iordache M., Andrei P.C., **Stanculescu M.**, Deleanu S., Bobaru L. (2021) *Power and Energy Flow in Cvasi-Stationary Electric and Magnetic Circuits*. In: Mahdavi Tabatabaei N., Bizon N. (eds) Numerical Methods for Energy Applications. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-62191-9_24, pp.649-678 (**30 pagini**), indexat **SCOPUS**.
- 8 Andrei H., Gaiceanu M., **Stanculescu M.**, Andrei P.C., Buhosu R., Badea C.A. (2020) *Energy Storage Systems in Microgrid*. In: Mahdavi Tabatabaei N., Kabalci E., Bizon N. (eds) Microgrid Architectures, Control and Protection Methods. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-23723-3_8, pp.177-207 (**31 pagini**), 2020, **SCOPUS**.
- 9 Andrei H., Gaiceanu M., **Stanculescu M.**, Marinescu I., Andrei P.C. (2020) *Microgrid Protection*. In: Mahdavi Tabatabaei N., Kabalci E., Bizon N. (eds) Microgrid Architectures, Control and Protection Methods. Power Systems. Springer, Cham. https://doi.org/10.1007/978-3-030-23723-3_25 (**27 pagini**), 2020, **SCOPUS**.
- 10 Gaiceanu M., **Stanculescu M.**, Andrei P.C., Solcanu V., Gaiceanu T., Andrei H. (2020) *Intrusion Detection on ICS and SCADA Networks*. In: Pricop E., Fattahi J., Dutta N., Ibrahim M. (eds) Recent Developments on Industrial Control Systems Resilience. Studies in Systems, Decision and Control, vol 255. Springer, Cham. https://doi.org/10.1007/978-3-030-31328-9_10, pp 197-262 (**65 pagini**), 2020, indexat **SCOPUS**.
- 11 Andrei H., Gaiceanu M., **Stanculescu M.**, Marinescu I., Andrei P.C. (2020) *Security Evaluation of Sensor Networks*. In: Pricop E., Fattahi J., Dutta N., Ibrahim M. (eds) Recent Developments on Industrial Control Systems Resilience. Studies in Systems, Decision and Control, vol 255. Springer, Cham. https://doi.org/10.1007/978-3-030-31328-9_11, pp. 263-282 (**19 pagini**), 2020, indexat **SCOPUS**.
- 12 Andrei H., Gaiceanu M., **Stanculescu M.**, Arama I.N., Andrei P.C. (2019) *Power Systems Connectivity and Resiliency*. In: Mahdavi Tabatabaei N., Najafi Ravadanegh S., Bizon N. (eds) Power Systems

Resilience. Power Systems. Springer, Cham, https://doi.org/10.1007/978-3-319-94442-5_2, Print ISBN 978-3-319-94441-8, Online ISBN 978-3-19-94442-5, eBook Packages Energy, pp. 45-79 (**35 pagini**), **WOS:000456874500004**, indexata **SCOPUS**.

- 13** Andrei H., Andrei P.C., Gaiceanu M., **Stanculescu M.**, Arama I.N., Marinescu I. (2019) *Power Systems Recovery and Restoration Encounter with Natural Disaster and Deliberate Attacks*. In: Mahdavi Tabatabaei N., Najafi Ravadanegh S., Bizon N. (eds) *Power Systems Resilience*. Power Systems. Springer, Cham, https://doi.org/10.1007/978-3-319-94442-5_10, Print ISBN 978-3-319-94441-8, Online ISBN 978-3-19-94442-5, eBook Packages Energy, pp. 247-287 (**40 pagini**), **WOS:000456874500012**, indexata **SCOPUS**.
- 14** Mihai Iordache, Lucia Dumitriu, Dragos Niculae, **Marilena Stanculescu**, Victor Bucată, Georgiana Rezmerită, Chapter “*Circuit Analyses with Nullors*”, Lecture Notes in Electrical Engineering 479, In book *Pathological Elements in Analog Circuit Design*, Editors Mourad Fakhfakh, Marian Pierzchala, March 2018, Springer International Publishing AG, part of Springer Nature 2018, Electronic ISBN 978-3-319-75157-3, Print ISBN: 978-3-319-75156-6, DOI: 10.1007/978-3-319-75157-3_4, pp. 91-147 (**57 pagini**), **WOS:000441385600006**, indexata **SCOPUS**.
- 15** Andrei H., Andrei P.C., Constantinescu L.M., Beloiu R., Cazacu E., **Stanculescu M.** (2017) *Electrical Power Systems*. In: Mahdavi Tabatabaei N., Jafari Aghbolaghi A., Bizon N., Blaabjerg F. (eds) *Reactive Power Control in AC Power Systems*. Power Systems. Springer, Cham, 2017, DOI: https://doi.org/10.1007/978-3-319-51118-4_1, **WOS:000418032900003**, Online ISBN 978-3-319-51118-4, Print ISBN 978-3-319-51117-7, pp. 3-47 (**44 pagini**), indexata **SCOPUS**.
- 16** Andrei H., Andrei P.C., Cazacu E., **Stanculescu M.** (2017) *Fundamentals of Reactive Power in AC Power Systems*. In: Mahdavi Tabatabaei N., Jafari Aghbolaghi A., Bizon N., Blaabjerg F. (eds) *Reactive Power Control in AC Power Systems*. Power Systems. Springer, Cham, 2017, pp. 49-115, DOI: 10.1007/978-3-319-51118-4_2, **WOS:000418032900004**, Online ISBN 978-3-319-51118-4, Print ISBN: 978-3-319-51118-4; 978-3-319-51117-7, pp. 49-115 (**67 pagini**), indexata **SCOPUS**.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Ris - Reviste de specialitate de circulație internațională indexate ISI/BDI

Ris 1. Grib Mihaela, Sirbu Ioana-Gabriela, Mandache L., Stanculescu Marilena), Iordache M., Bobaru Lavinia; Niculae Dragos, *Generation Algorithms for Thévenin and Norton Equivalent Circuits*, ENERGIES, 18 (7), Published MAR 10 2025, DOI10.3390/en18061344, **WOS:001453861100001**.

Ris 2. Ioana, Gabriel, Cazacu Emil, Petrescu Lucian, Stanculescu Marilena, *Study over the harmonic effects in electrical distribution networks*, Volume87, Issue1, Page259-272, University Politehnica of Bucharest Scientific Bulletin Series C-Electrical Engineering And Computer Science, Volume87, Issue1, Page 259-272, 2025, **WOS:001445507200018**.

Ris 3. Laudatu Ovidiu), Niculae Dragos;, Iordache, Mihai, Bobaru Maria-Lavinia, Stanculescu Marilena, *Experimental Analysis Of Power Semiconductor Elements Used In Flyback Converters*, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, Volume 69, Issue1, Page67-72, 2024, **WOS:001198252400013**.

Ris 4. Tufan, C., Nemoianu, I. V., Maricar, M., **Stanculescu, M.**, & Marin, M. E. (2022), *Efficient Method Of Harmonic Analysis Of Three-Phase Circuits With Nonlinear Controlled Switching Elements*. Revue Roumaine des Sciences Techniques Serie Electrotechnique Et Energetique, 67(1), 47-54. Pagini: 47-54 (**8 pagini**) Published: JAN-MAR 2022, **WOS:000820490200002**, **IF=0.443**.

Ris 5. Andrei, P., **Stanculescu, M.**, Deleanu, S., Cazacu, E., Gaiceanu, M., Micu, D., & Andrei, H. (2022). *Engineering Applications For Electromagnetically-Mechanical Fields*. International Journal on Technical and Physical Problems of Engineering, 14(2), 200-215 (**16 pagini**), indexata **SCOPUS**.

- Ris 6.** Mladenov, V., Chobanov, V., Seritan, G.C., Porumb R.F., Enache B.A., Vita V., **Stanculescu Marilena**, Van T.V., Bargiotas D., *A Flexibility Market Platform for Electricity System Operators Using Blockchain Technology*, ENERGIES, Volume: 15 Issue: 2 Article Number: 539, **(26 pagini)**, DOI: 10.3390/en15020539 Published: JAN 2022, Accession Number: **WOS:000759106800001**, **IF=3.252**.
- Ris 7.** Andrei, P.C. , **Stanculescu Marilena**, Andrei, H., Caciula, I., Diaconu, E., Bizon N., Mazare A.G., Ionescu L.M., Gaiceanu, M., *Comparative and Predictive Analysis of Electrical Consumption during Pre- and Pandemic Periods: Case Study for Romanian Universities*, Source: SUSTAINABILITY, Volume: 14 Issue: 18 Article Number: 11346 DOI: 10.3390/su141811346 Published: SEP 2022, **(22 pagini)**, Accession Number: **WOS:000856632500001**, eISSN: 2071-1050, **IF=3.889**.
- Ris 8.** Raicu Costel-Ciprian, Seritan George-Calin, Enache Bogdan-Adrian **Stanculescu Marilena**, *Development Approach Model for Automotive Headlights with Mixed Delivery Methodologies over APQP Backbone*, Volume11, Issue22, Article Number10581, DOI10.3390/app112210581, Published NOV 2021, Indexed2021-12-10, Document Type Article, **WOS:000725460900001**, eISSN 2076-3417, **(12 pagini)**,)Journal Information APPLIED SCIENCES-BASEL, **IF=2.021**.
- Ris 9.** Niculae Dragos Marin, **Stanculescu Marilena**, Deleanu Sorin, Iordache Mihai, Bobaru, Lavinia, *Wireless Power Transfer Systems Optimization Using Multiple Magnetic Couplings*, Volume 10, Issue20, Article Number2463, DOI10.3390/electronics10202463 Published OCT 2021, Indexed2021-11-13, Document Type Article, **(15 pagini)**, **WOS:000715322800001**, eISSN 2079-9292. Journal information Electronics, **IF=2.69**.
- Ris 10.** **Stanculescu Marilena**, Deleanu Sorin, Andrei Paul, Andrei Horia, *A Case Study of an Industrial Power Plant under Cyberattack: Simulation and Analysis*, Volume14, Issue9, Article Number2568, DOI10.3390/en14092568, Published MAY 2021, Indexed 2021-06-04, **(20 pagini)**, Document Type Article, **WOS:000650158300001**, eISSN 1996-1073, Journal information Energies, **IF=3.252**.
- Ris 11.** Ioan Florea Hantila, Mihai Maricar, **Marilena Stanculescu**, George Marian Vasilescu, *Method For Analyzing Three-Phase Networks With Nonlinear Resistive Elements*, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique Volume: 64 Issue: 2, Pagini: 103-106 **(4 pagini)**, Published: APR-JUN 2019, Accession Number: **WOS:000479328200001**, ISSN: 0035-4066, **IF=0.443**.
- Ris 12.** **Marilena Stanculescu**, Mihai Iordache, Dragos Niculae, Lavinia Bobaru, Victor Bucata, *Algorithm For Computing S Parameters And Their Use For Studying Efficiency Of Electromagnetic Energy Wireless Transfer Systems*, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, Volume: 63, Issue: 2, Pagini: 138-144 **(6 pagini)**, Published: APR-JUN 2018, **IF=0.76** (2017), Q3 category, Accession Number: **WOS:000438662400005**, ISSN: 0035-4066, indexata SCOPUS.
- Ris 13.** Paul Cristian Andrei, Mihai Maricar, Stelian Marinescu, **Marilena Stanculescu**, Ioan Florea Hantila, *An Efficient Procedure To Assess The Static Magnetization Relationship*, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, Vol. 61, Issue 2, pp. 101-105 **(4 pagini)**, Apr-Jun 2016, ISI Thomson Reuters **WOS:000381238000001** , ISSN: 0035-4066, **IF = 0.443**, indexata SCOPUS.
- Ris 14.** M. Maricar, **Marilena Stanculescu**, V. Minculete, I.F. Hantila, *Solidification Surface Speed Control Of Ferromagnetic Pieces Using Eddy Current Beating*, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique Volume: 57 Issue: 4 Pagini: 351-360 **(10 pagini)** Published: OCT-DEC 2012, ISI Thomson Reuters **WOS:000313936100003**, ISSN: 0035-4066, **IF = 0.4436**, indexata SCOPUS.
- Ris 15.** **Marilena STANCULESCU**, M. Maricar, I.F.Hantila, S. Marinescu, Livia Bandici, *An Iterative Finite Element - Boundary Element Method For Efficient Magnetic Field Computation In Transformers*,

Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, Volume: 56 Issue: 3, Pagini: 267-276 (**10 pagini**), Published: JUL-SEP 2011, ISI Thomson Reuters **WOS:000298453900003**, ISSN: 0035-4066, **IF = 0.443**, indexata **SCOPUS**.

- Ris 16.** Valer Giurgiu, Ioan Florea Hantila, Mihai Maricar, **Marilena Stanculescu**, *The Numerical Calculation of HV Fuses Pre-Arcing Time in the Case of Transversal Adiabatic Process*, In Applied Electromagnetic Engineering for Magnetic, Superconducting and Nanomaterials, Editors: Mamalis, A. G. and Enokizono, M. and Kladas, A, January 2011 Materials Science Forum 670:526-534, DOI: 10.4028/www.scientific.net/MSF.670.526, 2011, (**9 pagini**), ISI Thomson Reuters **WOS:000296800600063**, **IF=0.399**, indexata **SCOPUS**.
- Ris 17.** Lavinia Maria Bobaru, **Marilena Stănculescu**, D. Niculae, M. Iordache, *On Magnetically Coupled Coils Parameter Calculation*, The Scientific Bulletin of Electrical Engineering Faculty, Volume 20: Issue 1, DOI: 10.2478/SBEEF-2020-0102, (**4 pagini**), ISSN 2286-2455, CNCSIS Category B+, **CNCSIS Code 830**, Index **Copernicus**, **EBSCO**.
- Ris 18.** Mihai Iordache, Victor Bucată, Dragoș Niculae, **Marilena Stănculescu**, Maria - Lavinia Bobaru, *Design of Wireless Electromagnetic Energy Transfer Systems*, Annals of the University of Craiova, Electrical Engineering series, No. 42, Issue 1, 2018; ISSN 1842-4805, pp. 15 – 20 (**6 pagini**), Revista **CNCSIS B+ journal**, indexata **Copernicus**.
- Ris 19.** Dragoș Niculae, **Marilena Stănculescu**, Mihai Iordache and Maria - Lavinia Bobaru, *An Analysis on Efficiency of Wireless Transfer Energy Due to a Misalignment of Two Coils*, Annals of the University of Craiova, Electrical Engineering series, No. 42, Issue 1, 2018; ISSN 1842-4805, pp. 21 – 25 (**5 pagini**), Revista **CNCSIS B+ journal**, indexata **Copernicus**.
- Ris 20.** **Marilena Stănculescu**, Lavinia Bobaru, Mihai Iordache, Dragoș Niculae and Victor Bucată, *Wireless Power Transfer Analysis Using Scattering Parameters*, Annals of the University of Craiova, Electrical Engineering series, No. 42, Issue 1, 2018; ISSN 1842-4805, pp. 26 – 31 (**6 pagini**), Revista **CNCSIS B+ journal**, indexata **Copernicus**.
- Ris 21.** Oana Drosu, **Marilena Stănculescu**, *Cardiac Stimulation Through Induced Currents*, The Scientific Bulletin of Electrical Engineering Faculty – SBEEF 17 (2017), no. 2, 25-29 (**4 pagini**), **CNCSIS Category B+**, **CNCSIS Code 830**, DOI: 10.1515/sbief-2017-0006, indexata **Copernicus**.
- Ris 22.** Emil Cazacu, **Marilena Stanculescu**, Horia Andrei, *On the correction of the power factor in modern low-voltage power electrical installations*, The Scientific Bulletin of Electrical Engineering Faculty - SBEEF, volume 17, Issue 2, oct. 2017 pp. 10-15 (**6 pagini**), **CNCSIS Category B+**, **CNCSIS Code 830**, DOI: 10.1515/sbief-2017-0003, indexata Index **Copernicus**, **EBSCO**.
- Ris 23.** Mihai Iordache, George Andronescu, Victor Bucată, Maria-Lavinia Iordache (Bobaru), **Marilena Stănculescu**, Dragoș Niculae, *Design and Simulation of Wireless Power, Transfer Systems*, Annals of the University of Craiova, electrical Engineering Series, no. 40, 2016, (**4 pagini**) ISSN 1842-4805, **CNCSIS B+**, indexata **Copernicus**.
- Ris 24.** **Marilena Stanculescu**, Mihai Iordache, Dragos Niculae, Lavinia Iordache Bobaru, Victor Bucata, *S Parameter Computation and Their Use for Electromagnetic Energy Wireless Transmission*, International Journal of Computers & Technology, Volume 15, Number 9, ISSN 2277-3061, September 2016, (**13 pagini**) DOI: 10.24297/ijct.v15i9.654, indexata **Copernicus**.
- Ris 25.** O. Drosu, **M. Stănculescu**, *Review on Electromagnetic Stimulation of Alive Tissues*, The Scientific Bulletin of Electrical Engineering Faculty - SBEEF **4 pagini**, DOI:10.1515/sbief-2016-0014), <https://www.researchgate.net/publication/309688602>, Jan 2016, indexata Index **Copernicus**, **EBSCO**

Vis - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte BDI.

- Vis.1** M. Popescu, M. Stănculescu, M. Iordache, L. Bobaru, D. Niculae and M. Grib, "Computing the Parameters of the Impedance Circuit Matching," *2024 International Conference*

on *Applied and Theoretical Electricity (ICATE)*, Craiova, Romania, 2024, pp. 1-4, doi: 10.1109/ICATE62934.2024.10748638.

- Vis.2** O. Lăudatu, M. Stănculescu, M. Iordache, L. Bobaru, D. Niculae and M. Rotaru, "Design Considerations for Switched-Mode Power Supplies with Capacitive Coupling," *2024 International Conference on Applied and Theoretical Electricity (ICATE)*, Craiova, Romania, 2024, pp. 1-6, doi: 10.1109/ICATE62934.2024.10748629.
- Vis.3** D. Niculae, M. Iordache, M. Stanculescu, L. Bobaru, A. Georgescu and V. Bucata, "Computer Aided Design of Two-Element Matching Network Using the ZY Smith Chart," *2024 International Conference on Applied and Theoretical Electricitfvy (ICATE)*, Craiova, Romania, 2024, pp. 1-4, doi: 10.1109/ICATE62934.2024.10748637.
- Vis.4** O. Lăudatu, M. Iordache, M. Stănculescu, L. Bobaru, D. Niculae and E. Cazacu, "Loop Closing of Flyback Switching Power Supply Using Capacitive Coupling," *2023 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Craiova, Romania, 2023, pp. 1-6, doi: 10.1109/SIELMEN59038.2023.10290757.
- Vis.5** D. Niculae, M. Iordache, L. Bobaru, M. Stănculescu, O. Drosu and A. A. Moscu, "Dedicated Analog Circuit Simulation Programs," *2023 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Craiova, Romania, 2023, pp. 1-6, doi: 10.1109/SIELMEN59038.2023.10290763.
- Vis.6** G. Ioana, E. Cazacu, M. Stănculescu, D. Niculae and M. Iordache, "Current Trends In Power Factor Compensation: Insights and Perspectives," *2023 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Craiova, Romania, 2023, pp. 1-6, doi: 10.1109/SIELMEN59038.2023.10290739.
- Vis.7** Lavinia Bobaru; Dragos Niculae; Georgiana Rezmeriță; Marilena Stănculescu; Mihai Iordache; Oana Drosu, "Factors Influencing the Optimization of Magnetically Coupled Coil Structures-Analysis and Discussions," *2023 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Craiova, Romania, 2023, pp. 1-6, doi: 10.1109/SIELMEN59038.2023.10290826.
- Vis.8** Emil Cazacu, Gabriela Ioana, Marilena Stănculescu, Lucian Petrescu, "Active Power Filter Solution to the Harmonic Issues Caused by a Nonlinear Industrial Load," *2023 10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 01-06, doi: 10.1109/MPS58874.2023.10187576.
- Vis.9** D. Niculae, M. Iordache, L. Bobaru, M. Stănculescu, M. Grib and O. Laudatu, "Adapting the Impedance of The Signal Transmission Lines," *2023 10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 01-05, doi: 10.1109/MPS58874.2023.10187513.
- Vis.10** Mihaela GRIB; Mihai IORDACHE; Dragos NICULAE; Lavinia BOBARU; Marilena STANCULESCU; Georgiana REZMERITA, "The Use Of Smith Diagram For Impedance Matching," *2023 10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 1-5, doi: 10.1109/MPS58874.2023.10187467.
- Vis.11** O. Lăudatu, M. Iordache, M. Stănculescu, D. Niculae, L. Bobaru and O. Drosu, "Loop Closing of Flyback Switching Power Supply Using Inductive Coupling. Practical Study," *2023 10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 01-04, doi: 10.1109/MPS58874.2023.10187546.
- Vis.12** T. -I. Voicila, G. -C. Seritan, B. -A. Enache, M. Stanculescu and R. -F. Porumb, "Design and implementation of a multi-battery, multi-chemistry state of health screening system," *2023 10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 1-4, doi: 10.1109/MPS58874.2023.10187442.

- Vis.13** Mihai Iordache; Marilena Stănculescu; Paul Andrei; Lavinia Bobaru; Horia Andrei; Emil Diaconu, "Equivalent Models of Nonlinear Circuit Elements in Nonsinusoidal Regime," *2023 10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 1-5, doi: 10.1109/MPS58874.2023.10187445.
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- Vis.34** Lavinia Bobaru, **Marilena Stanculescu**, Sorin Deleanu, Mihai Iordache, Dragos Niculae, Victor Bucata, *Using S Parameters in Two-Port Circuit Analysis*, 2019 15th International Conference on Engineering of Modern Electric Systems (EMES), 13-14 June 2019, pagini: 81-84 (4 pagini), Document

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- Vis.37** Dragos Niculae, Mihai Iordache, **Marilena Stanculescu**, Maria Lavinia Bobaru, Sorin Deleanu, *A Review of Electric Vehicles Charging Technologies Stationary and Dynamic*, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 28-30 March 2019, INSPEC Accession Number: 18724310, DOI: 10.1109/ATEE.2019.8724943, (**4 pagini**), Publisher: **IEEE**, **WOS:000475904500100**, ISSN: 1843-8571.
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- Vis.39** R. Asanache, M. Iordache, D. Niculae, **M. Stanculescu**, M.L. Bobaru, *The computation of the kQ -product and properties of wireless power transfer systems*, 2018, International Conference on Applied and Theoretical Electricity, ICATE 2018; Craiova; Romania; 4 October 2018 through 6 October 2018; Category number CFP1899S-ART; Code 143155, DOI: 10.1109/ICATE.2018.8551448, ISBN: 978-153863806-4, pp. 1-6 (**6 pagini**), indexata **SCOPUS**, **IEEE Xplore**, **WOS:000487278600065**
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- Vis.49** Mihai Maricar, Stelian Marinescu, **Marilena Stănculescu**, Paul Cristian Andrei, Ioan Florea Hăntilă, *Equipment for the Magnetization Characteristic Evaluation of a Ferromagnetic Body*, 13th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, Jun 11-12, 2015, ISI Thomson Reuters **WOS:000363815100032**, INSPEC Accession Number: 15295945, DOI: 10.1109/EMES.2015.7158419, ISBN:978-1-4799-7650-8, pp. 1-4 (**4 pagini**), indexata **SCOPUS, IEEE Xplore**.
- Vis.50** George Marian Vasilescu, Mihai Maricar, Oana Drosu, Marius Aurel Costea, Ioan Florea Hăntilă, **Marilena Stănculescu**, *The Study of the Electric Field in Electroplosmolysis*, 13th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, Jun 11-12, 2015, ISI Thomson Reuters **WOS:000363815100031**, INSPEC Accession Number: 15295957, DOI: 10.1109/EMES.2015.7158418, ISBN:978-1-4799-7650-8, pp. 1-6 (**6 pagini**) indexata **SCOPUS, IEEE Xplore**.

V. BREVETE DE INVENȚIE / INOVAȚII SAU CREAȚII ARTISTICE (B,A)

1. Patent Number(s): RO131291-A2, „Device And Method For Determining Static B-H Characteristic Of Ferromagnetic Materials” (Dispozitiv si metoda pentru determinarea caracteristicii statice B-H a materialelor feromagnetice), autori: Ioan Florea HANTILA, Stelian MARINESCU, Viorel STANCIU, Paul Cristian ANDREI, Mihai MARICARU, **Marilena STĂNCULESCU**, Derwent Primary Accession Number: 2016-52539F, International Patent Classification: G01N-027/72; G01R-033/12.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

Pn - Naționale

- Pn1. Director de proiect.** Denumirea programului din UPB: Granturi naționale (GNaC 2018 ARUT). Contract de finatare nr. 03.15.10.2018. Titlu proiect: *Transferul Inductiv Al Energiei Aplicat La Încărcarea Fără Contact Galvanic Și Fără Intervenție Umană A Bateriilor De Acumulatori Pentru Automobilul Electric* - TRINEN. Durata 14 luni.
- Pn2. Responsabil de proiect:** *Echipament pentru încărcarea fără fir (wireless) a telefoanelor mobile* (acronim iPhone, **CI 216/2018**), UEFISCDI - PN-III-P2-2.1-CI-2018-1275.
- Pn3. Responsabil proiect:** *Optimizarea geometriei unui generator electric în vederea creșterii eficienței energetice* (acronim OPTIM4GEN, **CI 230/2018**), UEFISCDI - PN-III-P2-2.1-CI-2018-1343.
- Pn4. Membru echipa de proiect:** 30/SGU/NC/I/ „Îmbunătățirea oportunităților de participare la învățământul de calitate în cadrul Facultății de Inginerie Electrică - TOPICFIE”, Grant finanțat din Schema de granturi pentru universități, derulată în cadrul Proiectului privind Invatamantul Secundar - ROSE, Ministerul Educației Naționale, 01.11.2017-17.10.2019.
- Pn5. Membru în echipa de cercetare** - TERMOSUTIEN PENTRU DETECTIA SI LOCALIZAREA CANCERULUI DE SAN -TERMOCAN 30PTE din 06/10/2016 (PN-III-P2-2.1-PTE-2016-0029).
- Pn6. Membru în echipa de cercetare** *Metode electromagnetice pentru imbunatatirea procedurilor vinicole-* PN II: PARTENERIATE ÎN DOMENII PRIORITARE, ID: PN-II-PT-PCCA-2013-4-2225- perioada: 2014-2016- contract 170/2014, MEN-UEFISCDI.
- Pn7. Membru în echipa de cercetare:** *Localizarea si evaluarea dimensiunilor tumorilor de sân prin soluționare problemei inverse de câmp termic* (INVTTERM) (proiect AMCSIT CEEX 125/2006, 2006-2008).
- Pn8. Membru în echipa de cercetare:** *Dirijarea formării structurii de solidificare prin intermediul câmpului electromagnetic* (SOLID) (proiect AMCSIT CEEX 300/2006, 2006-2008).
- Pn9. Membru în echipa de cercetare** *Reconstrucția formei defectelor prin metode electromagnetice* (MAGNED), Proiect AMCSIT CEEX 79/2005, 2005-2007.
- Pn10. Membru în echipa de cercetare:** *Echipament de uscare a pereților în câmp electromagnetic de înaltă frecvență* (ELMDRY), PN-II-P2-2.1-CI-2017-0358.
- Pn11. Membru în echipa de cercetare:** UPB-GEX, contract 73/sept 2016, cod 439 *Stimuli Electromagnetici Pentru Tesuturile Vii*, 2006-2007.
- Pn12. Membru echipa de implementare** PROIECT POCU ID131213, - *Sinergia mediului universitar cu cel economic pentru arăspunde nevoilor actuale și viitoare ale pieței muncii în domeniile electric, energetic și știința materialelor (PRACTICE)*, buget: 4.058.248lei, Perioada de implementare 01.10.2020-30.09.2022.
- Pn13. Membru în echipa de cercetare** PN-III-P2-2.1-PTE-2019-0423, *Motor electric inovativ cu magneți permanenți fără pământuri rare destinat vehiculelor electrice ușoare* (EMLEV), Buget: 1.189.000 lei, 2019-2021.
- Pn14 Membru în echipa de cercetare** –Proiect PED696/2022 – *Controlul și telemonitoizarea la distanță a unui întreruptor de înaltă tensiune cu comutație în vid, de exterior destinat sistemului feroviar*. Valoarea totală 694.795,00 lei, (2022-2024).

Pi - Internationale

- Pi1. Membru în echipa de cercetare** - *Proiect Horizon 2020 INTERFACE -TSO-DSO-Consumer INTERFACE aRchitecture to provide innovative grid services for an efficient power system*, Project reference: 824330; Topic: LC-SC3-ES-5-2018-2020; Call for proposals: H2020-LC-SC3-2018-ES-SCC, 2019-2022, 95000 Euro, link: <http://www.interrface.eu/>

Pi2. Membru în echipa de cercetare - *Proiect Horizon2020 FARCROSS-Facilitating Regional CROSS-border Electricity Transmission through Innovation*, Grant agreement ID: 864274, Funded under: H2020-EU.3.3.4., 2019-2023, 90 000 Euro, link:<https://farcross.eu/>

Contracte de consultanță - expert evaluator European Research Executive Agency (REA)

1. Expert evaluator 2016-2025 (10 contracte)
2. Vice-Chair Eng Panel 2024