

Lista de lucrări
Conferențiar universitar, doctor inginer, NEMOIANU Iosif Vasile

I. TEZA DE DOCTORAT (A)

- T1.** Teza de doctorat (T) cu titlul *Contribuții la studiul câmpului electromagnetic în traductoare de deplasare*, Universitatea POLITEHNICA din București, diploma cu seria C, nr. 0003154 din 09.05.2003, emisă conform Ordin de Ministru nr. 3896 / 24.04.2003.

II. CĂRȚI PUBLICATE (C)

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

- Ca1.** E. Cazacu (coordonator), **I. Nemoianu**, M. Maricar, F. Enache, Marilena Stănculescu, A. Stănciulescu, Anișoara Anghel – *Chestiuni speciale de teoria circuitelor electrice; Elemente de teorie și aplicații*, vol. 2, Editura Matrix ROM, 2005, ISBN 973-685-926-6 (Cod CNCIS Editura 39).
- Ca2.** D. O. Micu, D. Toader, E. Cazacu, **I. Nemoianu** – *Electrotehnică aplicată*, Editura Academiei Oamenilor de Știință din România, București 2011, ISBN 978-606-8371-35-1.
- Ca3.** R.-M. Ciuceanu, **I. V. Nemoianu**, C. P. Mihai – *MAȘINI ELECTRICE – fundamente teoretice și funcționale*, Editura POLITEHNICA Press, 2020, ISBN 978-606-515-925-9.

Cb – Cărți de specialitate publicate la edituri recunoscute (autor, coautor, editor).

- Cb1.** I. V. Nemoianu – *Câmpul electromagnetic (regimurile static și staționar)*, Editura Matrix ROM, București 2008, ISBN 978-973-755-430-7 (Cod CNCIS Editura 39).
- Cb2.** E. Cazacu, **I. V. Nemoianu** – *Dispozitive magnetice speciale; Elemente de teorie și calcul*, Editura Matrix Rom, București 2008, ISBN 978-973-775-346-1. (Cod CNCIS Editura 39).
- Cb3.** I. V. Nemoianu – *Analiza numerică a traductoarelor inductive de deplasare cu structură spațială repetitivă*, Editura Printech, București 2010, ISBN 978-606-521-539-9 (Cod CNCIS Editura 54).

III. ALTE MATERIALE PUBLICATE

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

- I1.** L. Ochiană, I. F. Hăntilă, **I. Nemoianu**, Anișoara Anghel – *BAZELE ELECTROTEHNICII; Culegere de probleme; Partea I – curent continuu*, Editura Printech 2007, ISBN 978-973-718-783-3 (Cod CNCIS Editura 54).
- I2.** L. Ochiană, I. F. Hăntilă, **I. Nemoianu**, Anișoara Anghel – *BAZELE ELECTROTEHNICII; Culegere de probleme; Partea a II-a – curent alternativ*, Editura Politehnica Press 2008, ISBN 978-973-7838-99-5 (Cod CNCIS Editura 19).
- I3.** L. Ochiană, I. F. Hăntilă, **I. Nemoianu** – *REGIMURILE CIRCUITELOR ELECTRICE - 720 de aplicații*, Editura Printech 2009, ISBN 978-606-521-383-8 (Cod CNCIS Editura 54).
- I4.** **I. V. Nemoianu**, M. Maricar, R.M. Ciuceanu – *Culegere de probleme rezolvate de câmp electromagnetic*, Editura Matrix Rom, București 2018, ISBN 978-606-25-0390-1 (Cod CNCIS Editura 39).

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

- D1.** I. V. Nemoianu – *Bazele electrotehnicii 1* - note de curs și teme pentru studiul individual, pentru uzul studenților Facultății de Electronică, Telecomunicații și Tehnologia Informației, anul I, <https://curs.upb.ro/2024/course/view.php?id=5987> – Departamentul de Electrotehnică, POLITEHNICA București, 2024.
- D2.** I. V. Nemoianu – *Bazele electrotehnicii 2* - note de curs și seminar, pentru uzul studenților Facultății de Electronică, Telecomunicații și Tehnologia Informației, anul I, <https://curs.upb.ro/2024/course/view.php?id=7974> – Departamentul de Electrotehnică, POLITEHNICA București, 2025.
- D3.** I. V. Nemoianu – *Câmpul electromagnetic în traductoare* – note de curs, pentru uzul masteranzilor Facultății de Inginerie Electrică, anul I, programul de studiu Sisteme Inteligente de Instrumentație și Măsurare (SIIM) (163 pagini), I.V. Nemoianu, Radu Mircea Ciuceanu (43 pagini), <https://curs.upb.ro/2024/course/view.php?id=2097> – Departamentul de Electrotehnică, POLITEHNICA București, 2024.
- D4.** I. V. Nemoianu – *Machines électriques – notes de cours*, pentru uzul studenților Facultății de Inginerie în Limbi Străine ramura franceză, anul II, Departamentul de Electrotehnică, Universitatea POLITEHNICA din București, 2012 (http://www.elth.pub.ro/~nemo/Machines_electriques/).
- D5.** I. V. Nemoianu, Adelina Bordianu – *Bases de l'Electrotechnique 1*, note de curs pentru uzul studenților Facultății de Inginerie în Limbi Străine ramura franceză, anul I, (106 pagini), I. V. Nemoianu (43 pagini) <https://curs.upb.ro/2024/course/view.php?id=3989>, Departamentul de Electrotehnică, POLITEHNICA București, 2024.
- D6.** I. V. Nemoianu – *Bases de l'Electrotechnique 2* – note de curs pentru uzul studenților Facultății de Inginerie în Limbi Străine ramura franceză, anul I, <https://curs.upb.ro/2024/course/view.php?id=10141>, Departamentul de Electrotehnică, POLITEHNICA București, 2025.

IV. ARTICOLE / STUDII IN EXTENSO PUBLIFICATE (R, V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate în Baza de date ISI, sau indexate în alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).

- Ris1.** I.-M. Mîndreanu, R.-M. Ciuceanu, I.-V. Nemoianu – *Simulations and experiments in electrical networks*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 70, no. 1, pp. 53–56, Bucarest, 2025, ISSN 0035-4066, <https://doi.org/10.59277/RRST-EE.2025.1.9> (IDS:0ZM2D, WOS:001459703700009), FI (2024): 1,1; Q4.
- Ris2.** I.-M. Mîndreanu, R.-M. Ciuceanu, I.-V. Nemoianu – *Demonstrating the symmetry and non-symmetry components balance in grids with neutral conductor*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 69, no. 4, pp. 413–418, Bucarest, 2024, ISSN 0035-4066, <https://doi.org/10.59277/RRST-EE.2024.69.4.4> (IDS: P0D8X, WOS:001374734900008), FI (2024): 1,1; Q4.
- Ris3.** Veronica Manescu (Paltanea), I. Antoniac, G. Paltanea, I. V. Nemoianu, A. G. Mohan, Aurora Antoniac, Julietta V. Rau, Ș. A. Laptoiu, Petruta Mihai, H. Gavrilă, A. R. Al-Moushaly, A. D. Bodog – *Magnetic Hyperthermia in Glioblastoma Multiforme Treatment*, International Journal of Molecular Sciences, Volume 25, Issue 18, 2024,

- <https://doi.org/10.3390/ijms251810065>, MDPI, ISSN 1661-6596, eISSN 1422-0067, Article Number: 10065 (IDS: H5H8J, WOS:001323759100001), FI (2024): 4,9; Q1.
- Ris4.** I.-M. Mîndreanu, R.-M. Ciuceanu, **I.-V. Nemoianu** – *Experimental assessment of consumer unbalance and nonlinearity effects in three-phase networks without neutral conductor*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 69, no. 3, pp. 287–292, Bucarest, 2024, ISSN 0035-4066, <https://doi.org/10.59277/RRST-EE.2024.69.3.5> (IDS: G8Q2R, WOS:001319210900005), FI (2024): 1,1; Q4.
- Ris5.** G. Paltanea, Veronica Manescu (Paltanea), Aurora Antoniac, **I. V. Nemoianu**, H. Gavrilă – *Mechanical and Magnetic Properties Variation in Non-Oriented Electrical Steels with Different Cutting Technology: A Review*, Materials, Volume 17, Issue 6, 2024, ISSN (electronic) 1996-1944, doi: <https://doi.org/10.3390/ma17061345>, MDPI, Article Number: 1345 (IDS: MI2K4, WOS:001192926500001), FI (2024): 3,2; Q2.
- Ris6.** Veronica Manescu (Paltanea), I. Antoniac, Aurora Antoniac, D. Laptoiu, G. Paltanea, R. Ciocoiu, **I. V. Nemoianu**, Lucian Gheorghe Gruionu, Horatiu Dura – *Bone Regeneration Induced by Patient-Adapted Mg alloy-based Scaffolds*, Biomimetics 2023, Volume 8, Issue 8, 618; DOI: <https://doi.org/10.3390/biomimetics8080618>, E-ISSN 2313-7673, MDPI (IDS:DH8F8, WOS:001131224100001), FI (2024): 3,9; Q1.
- Ris7.** G. Paltanea, Veronica Manescu (Paltanea), I. Antoniac, Aurora Antoniac, **I. V. Nemoianu**, Alina Robu, H. Dura – *A Review of Biomimetic and Biodegradable Magnetic Scaffolds for Bone Tissue Engineering and Oncology*, International Journal of Molecular Sciences, Volume 24, Issue 5, 2023, <https://doi.org/10.3390/ijms24054312>, MDPI, ISSN 1661-6596, eISSN 1422-0067, Article Number: 4312 (IDS: 9V0SO, WOS:000948111600001), FI (2024): 4,9; Q1.
- Ris8.** C.-G. Dragomirescu, R.-M. Ciuceanu, Maria-Iuliana Dascalu, **I.-V. Nemoianu** – *Theory of catastrophes regarding the operation of a dc electric motor with series excitation*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 68, no. 1, pp. 90 – 95, Bucarest, 2023, ISSN 0035-4066, <https://doi.org/10.59277/RRST-EE.2023.68.1.15> (IDS: E1SJ3, WOS: 000973414700017), FI (2024): 1,1; Q4.
- Ris9.** Maria-Iuliana Dascălu, Constanța-Nicoleta Bodea, **I. V. Nemoianu**, A. Hang, Imola-Flóra Puskás, Iulia-Cristina Stănică, M. Dascalu – *CareProfSys – An ontology for career development in engineering designed for the Romanian job market*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 68, no. 2, pp. 212 – 217, Bucarest, 2023, ISSN 0035-4066, DOI: <https://doi.org/10.59277/RRST-EE.2023.68.2.16> (IDS:L9TQ7, WOS:001026628400016), FI (2024): 1,1; Q4.
- Ris10.** Veronica Manescu (Paltanea), G. Paltanea, E. Ferrara, **I. V. Nemoianu**, F. Fiorillo, H. Gavrilă – *Effect of mechanical cutting on the energy loss of laser-scribed grain-oriented alloys*, Journal of Magnetism and Magnetic Materials, Volume 565, 2023, DOI: <https://doi.org/10.1016/j.jmmm.2022.170212>, Article Number: 170212, Elsevier, ISSN: 0304-8853, eISSN: 1873-4766 (IDS:E4NE7, WOS:000975318000001), FI (2024): 3; Q2.
- Ris11.** I. Antoniac, Veronica Manescu (Paltanea), G. Paltanea, Aurora Antoniac, **I. V. Nemoianu**, M I. Petrescu, H. Dura, A. D. Bodog – *Additive manufactured magnesium-based scaffolds for tissue engineering*, Materials, Volume 15, Issue 23, 2022, ISSN (electronic) 1996-1944, doi:<https://doi.org/10.3390/ma15238693>, MDPI, Article Number: 8693 (IDS:6Z0AC, WOS:000897445600001), FI (2024): 3,2; Q2.
- Ris12.** C. Tufan, M. Maricar, **I. V. Nemoianu** – *Procedures for accelerating the convergence of the Hănțilă method for solving three-phase circuits with nonlinear elements – Part II*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei

- Române, tome 67, no. 4, pp. 395 – 401, Bucarest, 2022, ISSN 0035-4066 (IDS:8X4VV, WOS:000932012700005), FI (2024):1,1; Q4.
- Ris13.** C. Tufan, M. Maricar, **I. V. Nemoianu** – *Procedures for accelerating the convergence of the Hăntilă method for solving three-phase circuits with nonlinear elements – Part I*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 67, no. 3, pp. 293 – 300, Bucarest, 2022, ISSN 0035-4066 (IDS:5L9MH, WOS:000870731700012), FI (2024):1,1; Q4.
- Ris14.** **I. V. Nemoianu**, C. G. Dragomirescu, Veronica Manescu (Paltanea), Maria-Iuliana Dascalu, G. Paltanea, R. M. Ciuceanu – *Self-Organizing Equilibrium Patterns of Multiple Permanent Magnets Floating Freely under the Action of a Central Attractive Magnetic Force*, Symmetry, 2022, volume 14, no. 4, art. no 795. <https://doi.org/10.3390/sym14040795>, ISSN: 2073-8994 (IDS:0T4TK, WOS:000786961300001), FI (2024): 2,2; Q2.
- Ris15.** C. Tufan, **I. V. Nemoianu**, Mihai Maricar, Marilena Stănculescu, Mihai-Eugen Marin – *Efficient method of harmonic analysis of three-phase circuits with nonlinear controlled switching elements*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 67, no. 1, pp. 47 – 54, Bucarest, 2022, ISSN 0035-4066 (IDS:2Q5VR, WOS:000820490200002), FI (2024): 1,1; Q4.
- Ris16.** Iulia-Cristina Stanica, Florica Moldoveanu, Maria-Iuliana Dascalu, **I. V. Nemoianu**, Giovanni-Paul Portelli – *Advantages of telemedicine in neurorehabilitation and quality of life improvement*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 66, no. 3, pp. 195 – 199, Bucarest, 2021, ISSN 0035-4066 (IDS:XT5MT, WOS:000733632300008), FI (2024): 1,1; Q4.
- Ris17.** C. Tufan, **I. V. Nemoianu** – *Method for the Analysis of Three-Phase Networks Containing Nonlinear Circuit Elements in View of an Efficient Power Flow Computation*, Electronics, Volume 10, Issue 21, Article Number 2710, DOI 10.3390/electronics10212710, MDPI, eISSN 2079-9292, 2021 (IDS:XJ1ZP, WOS:000726595300001), FI (2024): 2,6; Q2.
- Ris18.** G. Paltanea, Veronica Manescu (Paltanea), **I.-V. Nemoianu**, H. Gavrilă, Maria-Iuliana Dascalu, V. Turcin, C. Paun – *Quasi-stationary magnetic behaviour of iron nickel based alloys machined through mechanical cutting*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 65, no. 3-4, pp. 153 – 156, Bucarest, 2020, ISSN 0035-4066 (IDS:PS9RX, WOS:000608261900001), FI (2024): 1,1; Q4.
- Ris19.** G. Paltanea, Veronica Manescu (Paltanea), R. Stefanoiu, **I. V. Nemoianu**, H. Gavrilă – *Correlation Between Magnetic Properties and Chemical Composition of Non-Oriented Electrical Steels Cut through Different Technologies*, Materials, Volume 13, Issue 6, 2020, ISSN (electronic) 1996-1944, doi:10.3390/ma13061455, MDPI, Article Number: 1455 (IDS:LI0WT, WOS: 000529208000194), FI (2024): 3,2; Q2.
- Ris20.** Veronica Manescu (Paltanea), G. Paltanea, E. Ferrara, **I. V. Nemoianu**, F. Fiorillo, H. Gavrilă – *Influence of Mechanical and Water-Jet Cutting on the Dynamic Magnetic Properties of NO Fe-Si Steels*, Journal of Magnetism and Magnetic Materials, Volume 499, 1 April 2020, 166257, DOI: 10.1016/j.jmmm.2019.166257, Article Number: 166257, ISSN: 0304-8853, eISSN: 1873-4766 (IDS:KG5TT, WOS:000510014100038), FI (2024): 3; Q2.
- Ris21.** Veronica Manescu (Paltanea), G. Paltanea, **I. V. Nemoianu**, H. Gavrilă – *Dynamic Preisach model used for estimation of silicon iron alloy hysteresis cycle*, University POLITEHNICA of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics, Vol. 81, Iss. 4, 2019, ISSN: 1223-7027, pp. 237 – 248 (IDS:JU8AW, WOS:000501894000023), FI (2024): 0,76; Q4.
- Ris22.** **I. V. Nemoianu**, Maria Iuliana Dascalu, Veronica Manescu (Paltanea), G. Paltanea, A. Radulian – *Detailed evaluation for the power flow effects of nonlinear circuit elements in three-phase networks without neutral*, Revue Roumaine des Sciences Techniques – Série

- Electrotechnique et Energétique, Ed. Academiei Române, tome 64, no. 3, pp. 195–198
Bucarest, 2019, ISSN 0035-4066 (IDS:JK5NW, WOS: 000494891100002), FI (2024): 1,1;
Q4.
- Ris23.** G. Paltanea, Veronica Manescu (Paltanea), H. Gavrilă, **I. V. Nemoianu**, P. C. Andrei, R. M. Ciuceanu – *Application of orientation distribution functions' theory in the case of grain-oriented steels cut through classical and non-conventional technologies*, International Journal of Applied Electromagnetics and Mechanics, Volume 61, pp. S131-S139 Supplement: 1, DOI: 10.3233/JAE-198976, 2019, ISSN 1383-5416 (Print), eISSN: 1875-8800 (Online) (IDS:IM1GV, WOS:000477737700017), FI (2024): 0,7; Q4.
- Ris24.** Iulia Cristina-Stanica, A. Moldoveanu, Maria-Iuliana Dascalu, Florica Moldoveanu, Mireille Radoi, **I. V. Nemoianu** – *Emergent technologies to enrich reading outcomes through augmented reality*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 64, no. 1, pp. 95-100, Bucarest, 2019, ISSN 0035-4066 (IDS:HT1CT, WOS:000464302300016), FI (2024): 1,1; Q4.
- Ris25.** Veronica Manescu (Paltanea), G. Paltanea, **I. V. Nemoianu**, Dorina Popovici, R. M. Ciuceanu – *Electrical Characterization of Titanium Dioxide Nanotubes Using Dielectric and Electrochemical Impedance Spectroscopy*, Revista de Chimie, vol. 69, issue 12, pp. 3495–3499, 2018, ISSN: 0034-7752 (IDS:HL2KO, WOS:000458533800033), IF:1,755; Q3.
- Ris26.** R.-I. Mogoș, Constanța-Nicoleta Bodea, Maria-Iuliana Dascălu, Olga Safonkina, Elisabeth Lazarou, Elena-Laura Trifan, **I. V. Nemoianu** – *Technology enhanced learning for Industry 4.0 engineering education*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 63, no. 4, pp. 429–435, Bucarest, 2018, ISSN 0035-4066 (IDS:HM9ZM, WOS:000459843500013), FI (2024): 1,1; Q4.
- Ris27.** Veronica Manescu-Paltanea, G. Paltanea, **I. V. Nemoianu** – *Degradation of Static and Dynamic Magnetic Properties of Non-Oriented Steel Sheets by Cutting*, IEEE Transactions on Magnetics, vol. 54, no. 11, Article Sequence Number: 2001705, DOI: 10.1109/TMAG.2018.2834375, 2018, ISSN: 0018-9464, eISSN: 1941-0069 (IDS:GX5YN, WOS: 000447832100014), FI (2024): 1,9; Q3.
- Ris28.** R. M. Ciuceanu, **I. V. Nemoianu**, Veronica Mănescu (Păltânea), G. Păltânea – *On Professor Ţugulea's visionary power theory: a review, recent advances and perspectives*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 63, no. 2, pp. 123–127, Bucarest, 2018, ISSN 0035-4066 (IDS:GN0MJ, WOS:000438662400002), FI (2024): 1,1; Q4.
- Ris29.** **I. V. Nemoianu**, Veronica Mănescu (Păltânea), G. Păltânea, R.M. Ciuceanu – *Assessment of tilt angle measurement based on a diamagnetically stabilized all permanent magnet levitation structure*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 63, no. 1, pp. 5–10, Bucarest, 2018, ISSN 0035-4066 (IDS:GE0IP, WOS:000430897800001), FI (2024): 1,1; Q4.
- Ris30.** **I. V. Nemoianu**, Veronica Mănescu (Păltânea), G. Păltânea – *Inclination sensing capabilities of a symmetrical permanent magnet levitation setup with electromagnets and diamagnetic stabilization*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 62, no. 2, pp. 123–128, Bucarest, 2017, ISSN 0035-4066 (IDS:FA7TD, WOS:000405648900001), FI (2024): 1,1; Q4.
- Ris31.** A. Radulian, M. Maricar, **I. V. Nemoianu**, R. Cretu – *New solution of dc linear actuator with additional permanent magnets: working principle, design and testing*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 61, no. 1, pp. 3–7, Bucarest, 2017, ISSN 0035-4066 (IDS:ES6AW, WOS:000311793000013), FI (2024): 1,1; Q4.

- Ris32.** I. V. Nemoianu, R. M. Ciuceanu – *Aspects of active and reactive powers conservation in three-phase circuits with zero impedance neutral and two nonlinear unbalanced loads*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 61, no. 4, pp. 349–354, Bucarest, 2016, ISSN 0035-4066 (IDS: EI2YV, WOS:000392357000007), FI (2024): 1,1; Q4.
- Ris33.** I. V. Nemoianu, R. M. Ciuceanu – *Characterization of non-linear three-phase unbalanced circuits powers flow supplied with symmetrical voltages*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 60, no. 4, pp. 355–365, Bucarest, 2015, ISSN 0035-4066 (IDS:CX8EQ, WOS: 000365935800002), FI (2024): 1,1; Q4.
- Ris34.** I. V. Nemoianu, R. M. Ciuceanu – *Non-symmetry and residual active and reactive powers flow in non-linear three-phase unbalanced circuits*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 60, no. 3, pp. 229–239, Bucarest, 2015, ISSN 0035-4066 (IDS:CP2BS, WOS:000359683100002), FI (2024): 1,1; Q4.
- Ris35.** I. V. Nemoianu – *Study of the voltage frequency doubler with nonlinear iron core magnetic characteristic*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 60, no. 2, pp. 123–132, Bucarest, 2015, ISSN 0035-4066 (IDS:CI9CG, WOS:000355067400002), FI (2024): 1,1; Q4.
- Ris36.** I. V. Nemoianu, E. Cazacu – *Quasi-vertical permanent magnet levitation – analytical model and characterization*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 59, no. 1, pp. 13–24, Bucarest, 2014, ISSN 0035-4066 (IDS:AD7JL, WOS: 000333440000002), FI (2024): 1,1; Q4.
- Ris37.** E. Cazacu, I. V. Nemoianu – *Transient state characterization of electronic circuitry small power transformers*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 58, no. 4, pp. 385–394, Bucarest, 2013, ISSN 0035-4066 (IDS:283QM, WOS:000329262100006), FI (2024): 1,1; Q4.
- Ris38.** E. Cazacu, V. Năvrănescu, I. V. Nemoianu – *On-site efficiency evaluation for in-service induction motors*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 58, no. 1, pp. 63–72, Bucarest, 2013, ISSN 0035-4066 (IDS: , WOS: 000319367500007), FI (2024): 1,1; Q4.
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- Vis21.** **I. V. Nemoianu**, Radu-Mircea Ciuceanu, Veronica Manescu (Paltanea), Gheorghe Paltanea, Maria-Iuliana Dascalu, Maria-Lavinia Bobaru – *Quantifying Power Effects of Unbalanced and Nonlinear Consumers in Three-phase Networks: A Theoretical Review and Experimental Verification*, 2024 4th International Symposium on Electrical, Electronics and Information Engineering (ISEEIE 2024), August 28-30, University of Leicester, UK (indexare IEEE Xplore).
- Vis22.** **I. V. Nemoianu**, Veronica Mănescu (Păltânea), Gheorghe Păltânea, Maria-Iuliana Dascălu, Radu Mircea Ciuceanu – *Detailed Investigation of the Residual and Non-Symmetry Active and Reactive Power Flow for No-Neutral Three-Phase Nonlinear Circuits*, DOI:10.1109/ATEE58038.2023.10108343, The 13th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Bucharest, March 23-25, 2023 (Indexare IEEE Xplore).
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- Vis24.** P. H. Quan, Veronica Manescu Paltanea, G. Paltanea, I. Antoniac, **I. V. Nemoianu** – *Potential of Biodegradable Magnesium Alloys for Medical Applications*, Key Engineering Materials ICKEM 2022. The 12th International Conference on Key Engineering Materials, published in Key Engineering Materials, Udine, Italy March 18 - 20 vol. 931, pp. 55–61, ISSN:1662-9795, doi:https://doi.org/10.4028/p-r405h8 https://www.scientific.net/KEM.931.55, 2022 Trans Tech Publications Ltd, Switzerland (indexări BDI: Scopus, Ei Compendex, ProQuest, EBSCOhost Research Databases, Index Copernicus Journals Master List).
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- Vi1.** Maria Iuliana Dascalu, Iuliana Marin, **I.V. Nemoianu**, Imola Flora Puskás, A. Hang – *An ontology for educational and career profiling based on the romanian occupation classification framework: description and scenarios of utilisation*, Proceedings of ICERI 2022 Conference, 7th-9th November 2022, ISBN: 978-84-09-45476-1, pp. 7386–7395 (Indexare BDI: Google Scholar/Academic).
- Vi2.** Veronica Manescu (Paltanea), Dorina Popovici, **I. V. Nemoianu**, G. Paltanea, B. Dumitrana – *Innovative virtual reality platform for increasing entrepreneurship competitiveness*, 15th Annual International Technology, Education and Development Conference, https://doi.org/10.21125/inted.2021.0144 (INTED 2021), 8-9 March, 2021 (Indexare BDI: Google Scholar/Academic).
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- Conference “Interdisciplinary Approach of Innovation as a Progress Factor”, pp. 8 – 14, ISBN 978-606-521-987-8, UPB-FILS, București, 7th December, 2012.
- Vi6.** E. Cazacu, **I. V. Nemoianu**, G. Küstler – *An accurate determination of forces exerted on the diamagnetic bodies in static and stationary magnetic fields*, Proceedings of the International Scientific Conference “Interdisciplinary Approach of Innovation as a Progress Factor”, pp. 1– 7, ISBN 978-606-521-987-8, UPB-FILS, București, 7th December, 2012.
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- Vi9.** E. Cazacu, **I. V. Nemoianu** – *Horizontal configuration of static permanent magnet diamagnetic levitation*, 6th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials JAPMED’6 Extended Abstracts Conference Proceedings July 27-29, 2009 “Politehnica” University of Bucharest, Romania, pp. 211 – 212, Editura Printech 2009, ISBN 978–606–521–346–3.
- Vi10.** E. Cazacu, **I. V. Nemoianu**, F. Munteanu – *Diamagnetic material usage in micro and nano levitation devices*, Proceedings of the Xth International Symposium “Young People and Multidisciplinary Research”, pp. 17 – 22, ISSN 1843–6609, Timișoara, 13th-14th November 2008.
- Vi11.** G. Păltânea, Veronica Păltânea, **I. Nemoianu** – *Magnetic properties of non-oriented silicon iron sheets in case of external applied thermal treatments*, Proceedings of the sixth International Workshop MMDE 2008, pp. 185 – 189, ISBN 978–605–521–028–8, Bucharest, June 16th-17th, 2008.
- Vi12.** G. Păltânea, Veronica Păltânea, **I. Nemoianu** – *A FEM model for the analysis of magnetic field influences over the measurements realized with a Single Sheet Tester (SST)*, The third workshop of Electromagnetic Compatibility CEM, pp. 64–68, ISBN: 973–718–529–3, Iași, Septembrie 2006.
- Vi13.** A. Stănciulescu, **I. Nemoianu**, Oana Drosu, Anișoara Anghel – *Estimation of Dimensions of Magnetic Inductive Displacement Rack Transducer*, Advanced Topics in Electrical Engineering ATEE–04, pp. 57–60, November 25–26 2004, CD-ROM, ISBN 973–7728–31–9.

Vn - Volumele unor manifestări științifice naționale.

- Vn1.** E. Cazacu, **I. V. Nemoianu** – *Calculation on a static horizontal diamagnetic levitation setting for permanent magnets*, Simpozionul Național de Electrotehnică Teoretică, SNET ’09, pp. 211–216, București 27 Octombrie 2009, ISSN 2067-4147.
- Vn2.** M. Vasiliu, **I. V. Nemoianu**, P. Svasta – *Joule’s heating losses in planar inductors*, Simpozionul Național de Electrotehnică Teoretică, SNET ’07, pp. 227–233, București 12 - 14 Octombrie 2007, ISBN 978–973–718–899–1.
- Vn3.** **I. V. Nemoianu**, M. Vasiliu, P. Svasta – *Caracteristici de frecvență ale inductoarelor planare dublu-strat*, Simpozionul Național de Electrotehnică Teoretică, SNET ’07, pp. 453–458, București 12–14 Octombrie 2007, ISBN 978–973–718–899–1.
- Vn4.** A. R. Stănciulescu, E. Cazacu, **I. Nemoianu** – *Inductivități mutuale în traductoare de distanță*, Simpozionul Național de Electrotehnică Teoretică SNET’05, pp. 323–327 București 12-14 Mai 2005, ISBN 973-618-268-5 (Indexare BDI: Google Scholar/Academic).

- Vn5.** A. Stănciulescu, I. V. Nemoianu, E. Cazacu, Oana Drosu, Anișoara Anghel – *Modelation of Magnetic Inductive Displacement Rack Transducer in F.E.M.M.*, Simpozionul Național de Electrotehnică Teoretică SNET'04, pp. 234–239, București 22-23 Octombrie 2004, ISBN 973–718–096–8 (Indexare BDI: Google Scholar/Academic).

V. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (**Pn** – naționale, **Pi** - internaționale).

- Pn1.** Grant de cercetare tip GNAC ARUT 2023 - UNSTPB tip CS ID155, nr. 28/09.10.2023 intitulat *Platformă experimentală pentru determinarea puterilor de nesimetrie și reziduale în rețele trifazate – TRICODD* (ID: 220235135) – **director**.
- Pn2.** Grant de cercetare tip CNCSIS AT nr. 184/2004 intitulat *Cuplaje electromagnetice între componentele microsistemelor electronice și mecanice* (grantul a continuat cu o nouă fază în anul 2005, obținută în urma competiției desfășurate pentru continuarea finanțării) – **director**.
- Pn3.** Grant de cercetare tip GNAC ARUT 2023 - UNSTPB tip CS, nr. 30/09.10.2023 intitulat *Influence of cutting processes on energy losses in electric machine cores/Influența procedeeilor de tăiere asupra pierderilor de energie în miezurile mașinilor electrice – MEFLOSS*, director proiect conf. dr. ing. Gheorghe Păltânea (ID:) – **coautor**.
- Pn4.** Grant de cercetare tip “Cecuri de inovare” 2018, intitulat *OPTIMIZAREA GEOMETRIEI UNUI GENERATOR ELECTRIC ÎN VEDEREA CREȘTERII EFICIENȚEI ENERGETICE*, nr. de identificare: PN-III-P2-2.1-CI-2018-1343, responsabil UPB ș.l. dr. ing. Marilena Stănculescu – **coautor**.
- Pn5.** Grant de cercetare tip “Excellence Research Grants” Program, UPB-GEX 2017, intitulat *ANIZOTROPIE OȚEL ELECTROTEHNIC*, Identifier: UPB-GEX2017, Ctr. No. 02/25.09.2017 (ANIZ-GO), director ș.l. dr. ing. Gheorghe PĂLTÂNEA – **coautor**.
- Pn6.** Grant de cercetare tip “Excellence Research Grants” Program, UPB-GEX 2017, intitulat *OPTIMIZARE CIRCUITE MAGNETICE*, Identifier: UPB-GEX2017, Ctr. No. 04/25.09.2017 (OPTIM-IE4), director ș.l. dr. ing. Veronica MĂNESCU (PĂLTÂNEA) – **coautor**.
- Pn7.** Grant de cercetare tip PTE nr. 30/2016 intitulat *Termosutien pentru detecția și localizarea cancerului de sân - TERMOSCAN*, coordonator UPB prof dr. ing. Florea Ioan Hăntîlă (PN-III-P2-2.1-PTE-2016-0029) – **coautor**.
- Pn8.** Contract de cercetare tip PNCDI 12 Program 4 Parteneriate nr. 31-096/ 2007 intitulat *Cercetări interdisciplinare privind valorificarea energetică a subproduselor din industria laptelui* (<http://www.icpe.ro/ro/d/54/p/cons> , responsabil de proiect partener-3 UPB-CCSAE conf. dr. ing. Cleante Petre Mihai) – **coautor**.
- Pn9.** Grant de cercetare tip CNCSIS AT nr. 13/2007 intitulat *Microsisteme de levitație electromagnetica bazate pe utilizarea materialelor diamagnetice* (<http://194.102.64.7/GranturiFinalizate/faces/Projects/ProjectsList.jsp>, Cod 13, director de proiect ș.l. dr. ing. Emil Cazacu) – **coautor**.
- Pn10.** Grant de cercetare tip AMCSIT INOVARE nr. 129/2007 intitulat *Echipament 90 kVA de acționare a motoarelor electrice de 400 Hz ale avionului* (http://www.amcsit.ro/amcsit.old/amcsit_catalog/129.pdf, director de proiect conf. dr. ing. Gelu Ionescu) – **coautor**.
- Pn11.** Grant de cercetare tip AMCSIT CEEX nr. 136/2006 intitulat *Creșterea eficienței timp, cost și ecologizare în serviciile tehnice ale aeronavelor; aprofundarea și demonstrarea rezultatelor prin realizarea de noi surse de putere, statice, pentru pornire și sursă programabilă, cu pas 1 Hz, de distorsiuni 0,3 %, pentru verificarea aparaturii de bord la 400 Hz* (<http://www.electro.pub.ro/wp-content/uploads/2012/03/contracte-CMIM.doc> , nr. crt. 13, responsabil UPB Electrotehnică conf. dr. ing. Gelu Ionescu – **coautor**.

- Pn12.** Grant de cercetare tip CNCSIS A nr. 51/2003 intitulat *Câmpul electromagnetic și forțele în structuri cu magneți permanenți* (http://vechi.cnscis.ro/index_afisare_2006.php?id=127#, director de proiect prof. dr. ing. Fănică Spinei) – **coautor**.
- Pn13.** Grant de cercetare tip CNCSIS nr. 629/2001 intitulat *Câmpul electromagnetic și termic în cuptoarele de microunde* (faza I a grantului *Algoritm de analiză a câmpului electromagnetic în cuptoarele de microunde*), responsabil prof. dr. ing. Fănică Spinei – **coautor**.
- Pn14.** Grant de cercetare beneficiar ANSTI Contract nr. 504/2000 (Program ORIZONT 2000) intitulat *Aplicatoare cu performanțe îmbunătățite utilizate în instalații cu microunde* (faza a II-a a contractului *Analiza câmpului electromagnetic din cavitatea cuptorului prin metoda elementului de frontieră*), responsabil prof. dr. ing. Florea Hăntîlă – **coautor**.

Data:

28.08.2025

Semnătura:

conf. dr. ing. Iosif Vasile Nemoianu