

Lista de lucrări

Conferențiar universitar, doctor inginer Iosif Vasile NEMOIANU

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 CNCISIS 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 CNCISIS 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 CNCISIS 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 CNCISIS Editura 54).

III. ALTE MATERIALE PUBLICATE

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile 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 CNCISIS 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 CNCISIS 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 CNCISIS 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 CNCISIS 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.** Ioana Mustață, **I.-V. Nemoianu**, R.-M. Ciuceanu, I.-C. Mustață – *Integrating Industry 4.0 in engineering education*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 71, no. 1, pp. 139–144, Bucarest, 2026, ISSN 0035-4066, <https://doi.org/10.59277/RRST-EE.2026.1.23> (IDS:FD6BS, WOS:001716224000023), FI (2024): 1,1; Q4.
- Ris2.** Veronica Manescu (Paltanea), A.-V. Dumitru, Aurora Antoniac, I. Antoniac, G. Paltanea, Elena-Cristina Zeca (Berbecar), Mirela Gherghe, **I. V. Nemoianu**, A. Streza, C. Paun, S. Gradinaru – *Magnetic hydrogels as a treatment for oncological pathologies*, Journal of Functional Biomaterials, Vol. 16, Issue 11, 414; <https://doi.org/10.3390/jfb16110414>, MDPI, eISSN 2079-4983 (IDS:F8258, WOS:001623929300001).
- Ris3.** 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.

- Ris4.** 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.
- Ris5.** Veronica Manescu (Paltanea), I. Antoniac, G. Paltanea, **I. V. Nemoianu**, A. G. Mohan, Aurora Antoniac, Julietta V. Rau, Ş. 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.
- Ris6.** 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.
- Ris7.** 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.
- Ris8.** 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.
- Ris9.** 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.
- Ris10.** 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.
- Ris11.** 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.
- Ris12.** 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.

- Ris13.** 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.
- Ris14.** C. Tufan, M. Maricararu, **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.
- Ris15.** C. Tufan, M. Maricararu, **I. V. Nemoianu** – *Procedures for accelerating the convergence of the Hănțilă 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.
- Ris16.** **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.
- Ris17.** C. Tufan, **I. V. Nemoianu**, Mihai Maricararu, 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.
- Ris18.** 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.
- Ris19.** 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.
- Ris20.** G. Paltanea, Veronica Manescu (Paltanea), **I.-V. Nemoianu**, H. Gavrila, 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.
- Ris21.** G. Paltanea, Veronica Manescu (Paltanea), R. Stefanoiu, **I. V. Nemoianu**, H. Gavrila – *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.
- Ris22.** Veronica Manescu (Paltanea), G. Paltanea, E. Ferrara, **I. V. Nemoianu**, F. Fiorillo, H. Gavrila – *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.

- Ris23.** 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.
- Ris24.** **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.
- Ris25.** 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.
- Ris26.** 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.
- Ris27.** 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.
- Ris28.** 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.
- Ris29.** 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.
- Ris30.** R. M. Ciuceanu, **I. V. Nemoianu**, Veronica Mănescu (Păltânea), G. Păltânea – *On Professor Țugulea'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.
- Ris31.** **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.

- Ris32.** 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.
- Ris33.** 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.
- Ris34.** 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.
- Ris35.** 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.
- Ris36.** 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.
- Ris37.** 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.
- Ris38.** 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.
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- Vis20.** O. Centea, **I. V. Nemoianu**, E. Cazacu, V. Păltânea, G. Păltânea – *Analysis of Direct Current Flowing Inside a Linear Increasing Conductivity Half-space*, 12th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), pp. 174–179, Braşov, May 20 - 22, 2010, ISBN 978-1-4244-7019-8, DOI: 10.1109/OPTIM.2010.5510434 (IDS: BVN54, WOS: 000291967300021, IEEE – Catalog Number: CFP1022D-CDR, INSPEC – Accession Number: 11431587, Scopus art. no. 5510434)
- 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).
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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).
- Vis25.** Veronica Manescu Paltanea, G. Paltanea, H. Gavrilă, **I. V. Nemoianu** – *Using the Design of Experiment Method to Develop an Energy Loss Model for Non-Oriented Electrical Steel Alloys*, Key Engineering Materials ICKEM 2021. 2021 The 11th International Conference on Key Engineering Materials, Skoltech, Moscow, Russia, March 26-29, 2021, published in Key Engineering Materials, vol. 902, pp. 71–77, ISBN-1662-9795, doi:10.4028/www.scientific.net/KEM.902.71, pp. 71–77 (<https://www.scientific.net/KEM.902.71>, indexări BDI: Scopus, Ei Compendex, ProQuest, EBSCOhost Research Databases, Index Copernicus Journals Master List).
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- Vis27.** G. Ionescu, G. Păltânea, V. Păltânea, **I. V. Nemoianu**, E. Cazacu – *Elimination of High Order Harmonics from the Output Voltage of an Inverter Using a Special Configuration Device*, Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium, ISBN 978-3-901509-83-4, ISSN 1726-9679, pp. 0521–0522, Editor Branko Katalinic, Published by DAAAM International, Vienna, Austria 2011 (Indexări BDI: EBSCO HOST Connection – Accession #: 69985144, Google Scholar/Academic).
- Vis28.** **I. V. Nemoianu**, E. Cazacu, G. Ionescu, V. Păltânea, G. Păltânea – *Study of the Conduction Phenomenon Inside an Inhomogeneous Half-Space of Exponentially Increasing Conductivity* (2010). 0717-0719, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp. 717–718, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria 2010 (Indexări BDI: EBSCO HOST Connection – Accession #: 55674816, Google Scholar/Academic).

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

- Vi1.** Veronica Manescu (Paltanea), Adrian-Vasile Dumitru, Gheorghe Paltanea, Costel Paun, **Iosif Vasile Nemoianu** – *Magnetic Hydrogel: Synthesis and Applications in Oncology*, International Conference Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat 2025 – Winter Edition, 28-28 November 2025, Book of Abstracts APPLICATIONS OF CHEMISTRY IN NANOSCIENCES AND BIOMATERIALS ENGINEERING, ISSN 3008-6124, ISSN-L 3008-6124.
- Vi2.** Gheorghe Paltanea, Veronica Manescu (Paltanea), Aurora Antoniac, Iulian Antoniac, **Iosif Vasile Nemoianu**, Costel Paun, Aurel Mohan – *Physical theory of magnetic hyperthermia in cancer treatment*, International Conference on Biomaterials & Regenerative Medicine BioREMEDI'2025, on October 16-18, 2025.

- Vi3.** Costel Paun, Veronica Manescu (Paltanea), Victor Stoica, Gheorghe Paltanea, **Iosif Vasile Nemoianu** – *Studies on the behavior of polypropylene film capacitors subjected to thermal treatments*, 8th International conference on emerging technologies in materials engineering (EmergeMAT), 06-07 October 2025, Pantelimon, Ilfov, Romania.
- Vi4.** 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).
- Vi5.** 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).
- Vi6.** Veronica Manescu (Paltanea), Dorina Popovici, **I. V. Nemoianu**, G. Paltanea, B. Dumitrana – *Virtual reality in forensic scenario used in higher education institutions in palestine*, 15th Annual International Technology, Education and Development Conference, (INTED 2021), <https://doi.org/10.21125/inted.2021.0287>, 8-9 March, 2021 (Indexare BDI: Google Scholar/Academic).
- Vi7.** M. Maricar, **I. V. Nemoianu**, G. M. Vasilescu, C.-I. Grumeza, F. I. Hantila – *Modèle hybride circuit magnétique-champ pour la détermination de la courbe de première aimantation*, 9th European Conference on Numerical Methods (NUMELEC 2017), Paris November 15-17, 2017.
- Vi8.** E. Cazacu, **I. V. Nemoianu** – *Capacitor banks inrush currents predetermination in low voltage power factor correction installations*, Proceedings of the International Scientific Conference “Interdisciplinary Approach of Innovation as a Progress Factor”, pp. 8 – 14, ISBN 978-606-521-987-8, UPB-FILS, București, 7th December, 2012.
- Vi9.** 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.
- Vi10.** F. M. Frigură-Iliasa, E. Cazacu, **I. V. Nemoianu**, S. C. Cosmescu – *Current flow through a circular earth-electrode inside a non-linear conductivity soil*, Proceedings of the XIIth International Symposium “Young People and Multidisciplinary Research”, pp. 26 – 31, ISSN 1843–6609, Timișoara, 11th-12th November 2010.
- Vi11.** E. Cazacu, **I. V. Nemoianu**, S. C. Cosmescu, M. F. Frigură-Iliasa – *Educational Stand for Harmonic Analysis on Power Supply Networks*, Proceedings of the XIIth International Symposium “Young People and Multidisciplinary Research”, pp. 20 – 25, ISSN 1843–6609, Timișoara, 11th–12th November 2010.
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- Vi13.** 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.
- Vi14.** 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.

- Vi15.** A. Stănculescu, **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. Stănculescu, 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. Stănculescu, **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 țara/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 microsystemelor 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 procedeeelor 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 Hăniță (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.cncsis.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 Hăniță – **coautor**.

Data:
30.03.2026

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Conf. univ. dr. ing. habil. Iosif Vasile Nemoianu