

LISTA DE LUCRĂRI

(Profesor, MOREGA Mihaela)

I. TEZA (E) DE DOCTORAT (T)

"Solicitări ale mașinilor electrice statice la funcționarea în regimuri tranzitorii. Regimul de scurtcircuit al transformatoarelor electrice".

Institutul Politehnic București, Facultatea de Electrotehnică, iunie 1988

II. CĂRȚI PUBLICATE (C)

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

- 1 Morega Mihaela, Machedon Alina, Gheorghe Adina Andreea - *Mașini Electrice pentru Acționări în Transporturi*, Ed. Matrix Rom, București 2000, ISBN 973-685-061-7
- 2 Fransua Alexandru, Covrig Mircea, Morega Mihaela, Vasile, Nicolae - *Introducere în teoria convertoarelor electromecanice*, Ed. Printech, București, 1999, ISBN 973-9475-70-1
- 3 Morega Mihaela, Morega Al.M., Gheorghe Adina, Machedon Alina - *Probleme de Bioinginerie. Modele numerice*, Ed. MatrixRom 2001, ISBN – 973-685-321-7

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

- 1 Morega Mihaela - *Bioelectromagnetism*, Ed. Matrix Rom, București, 1999, ISBN 973-685-056-0.
- 2 Fransua Alexandru, Covrig Mircea, Morega Mihaela, Vasile, Nicolae - *Conversia electromecanică a energiei*, Ed. Tehnică, București, 1999, ISBN 973-31-1373-5.
- 3 A.M. Morega, Mihaela Morega, A.A. Dobre, "Computational modeling in biomedical engineering and medical physics", Elsevier Academic Press, 2020, ISBN 978-0-12-817897-3 (s-a acordat premiul "Henry Coandă" al Academiei Române pentru anul 2020)

Cc - Cărți publicate în alte edituri, cu ISBN.

III. ALTE MATERIALE PUBLICATE (I,D)

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

- 1 Bălă C.V., Morega Mihaela - *Transformatorul electric* - îndrumar de proiectare, IPB, 1988
- 2 Mihalache M., Morega Mihaela, Kreindler L., Covrig M. - *Electrotehnică și mașini electrice* - îndrumar de laborator, IPB, 1990
- 3 Țogui Luxandra, Morega Mihaela - *Mașini electrice* - îndrumar de aplicații, UPB, 1997
- 4 Morega Mihaela, Morega Al. M. - *Modelare în bioinginerie* - îndrumar de aplicații, UPB, 1998
- 5 Morega Mihaela, Machedon Alina - *Mașini electrice* - îndrumar pentru aplicații, Ed. MatrixRom, București, 2005, ISBN 973-685-978-9

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

- 1 Morega Mihaela - Capitolele "Tomografia computerizată cu emisie de fotoni" și "Tomografia cu emisie de pozitroni" în cartea "Introducere în Imagistica Medicală", Ed. MatrixRom, București 2002, ISBN 973-685-469-8i
- 2 Morega A.M., Dobre A.A., Ipate Mihaela Corina, Morega Mihaela – "Electrical activity of the heart by numerical simulation", in "Topics in Mathematical Modelling of Life Science Problems", Editors: Stelian Ion, Constantin Popa, Ed. MatrixRom, 2012, ISBN 978-973-755-772-8 p. 87-96
- 3 Morega A.M., Dobre A.A., Morega Mihaela - "Blood Flow Indices Assessment by Electrocardiometry", in "Topics in Mathematical Modelling of Life Sciences Problems", Editors:

Stelian Ion and Constantin Popa, Ed. MatrixRom, 2013, ISBN:2344-1801, p. 115-138

- 4 Mihaela Morega, A.M. Morega, "Numerical simulation for dosimetric analysis of EMF interaction with human body", in "Electromagnetic Compatibility / Electromagnetic Field R&D in Romania", Editor: A. Marinescu, Editura AGIR, Bucuresti, 2014, ISBN 978-973-720-521-6, p. 60-64
- 5 Jana Pinteau, A. Marinescu, Mihaela Morega, "Current aspects and trends in standardization, with reference to general exposure in near field electromagnetic radiation", in "Electromagnetic Compatibility / Electromagnetic Field R&D in Romania", Editor: A. Marinescu, Editura AGIR, Bucuresti, 2014, ISBN 978-973-720-521-6, p. 212-217
- 6 A.M. Morega, A. Negoiaș, Mihaela Morega, "Heat Transfer Analysis of Spherical Cell Photovoltaic Modules used in Energy Harvesting Applications", in "Renewable Energy - Selected Issues Volume I", Editors: Manuel Perez-Donsion, Silvano Vergura, Gianpaolo Vitale, ISBN: 978-1-4438-8377-1, Cambridge Scholars Publishing 2016, p. 424-439, <http://www.cambridgescholars.com/renewable-energy>

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

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate *WOS*, sau indexate în alte BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță). *Se menționează la fiecare lucrare includerea în Baza WOS [Accession Number, WOS, ultimul Factor Impact, ISSN] și/sau denumirea altei BDI.*

Indexate WoS:

- 1 Morega Mihaela, Bejan A., "Plate fins with variable thickness and height for air-cooled electronic modules", *International Journal of Heat and Mass Transfer*, ISSN: 0017-9310 , vol. 37/1994, Suppl., p. 433 - 444, WOS:A1994NE24800042, JIF(2023): 5, JRC Category Q1 pt.: Mechanical Engineering, Thermodynamics, Mechanics
- 2 Mihaela Morega, Simona Miclaus, Alina Machedon, "Analysis of the Electromagnetic Field in a Controlled Enclosure for Biological Dosimetry, Part 1 – Design and Validation of the Numerical Model", *Rev. Roum. Sci. Techn. – Serie Electrotechn. et Energ.*, Romanian Academy Publishing House, ISSN: 0035-4066, tome 53, no.2/2008, p. 225-235, JIF(2023): 0.7, WOS:000257350500009
- 3 Mihaela Morega, A.M. Morega, " Analysis of the Electromagnetic Field in a Controlled Enclosure for Biological Dosimetry, Part 2 – EMF analysis of characteristic working conditions", *Rev. Roum. Sci. Techn. – Serie Electrotechn. et Energ.*, Romanian Academy Publishing House, ISSN: 0035-4066, tome 53, no.3/2008, p. 329-338, JIF(2023): 0.7, WOS:000260440200010
- 4 H. Kawahara, A. M. Morega, Mihaela Morega, "Heat Transfer in Electroconductive Fluids. A Highly Simplified Mark&Cell Simulation", *Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique*, ISSN 0035-4066, tome 54, no. 1/2009, p. 67-76, JIF(2023): 0.7, WOS:000264503000007
- 5 Simona Miclaus, Mihaela Morega, "Characterisation of the Electromagnetic Environment in a TEM Cell for Exposure of Small Biological Samples in the UHF Band", *Romanian Journal of Physics*, ISSN 1221-146X, Vol. 55, Issues 1– 2, 2010, p.195-204, JIF(2023): 1.2, WOS:000275925800018
- 6 M. Morega, Mihaela Morega, M. Panait, "Structural Optimization of a Thermoelectric Generator by Numerical Simulation", *Rev. Roum. Sci. Techn. – Serie Electrotechn. et Energ.*, ISSN: 0035-4066, tome 55, no.1/2010, p. 3-12, JIF(2023): 0.7, WOS:000277006700001
- 7 Dobre, A. M. Morega, Mihaela Morega, Corina Mihaela Ipate, "Numerical Simulation in Electrocardiography", *Rev. Roum. Sci. Techn. – Électrotechn. et Énerg.*, ISSN: 0035-4066, vol. 56, nr. 2/2011, p. 209-218, JIF(2023): 0.7 WOS:000291711900010
- 8 M. Morega, A. A. Dobre, Mihaela Morega, "Magnetic Field Flow Interactions in Drug Delivery through an Arterial System", *Rev. Roum. Sci. Techn. – Électrotechn. et Énerg.* ISSN: 0035-4066, vol. 56, nr. 2/2011, p. 199–208, JIF(2023): 0.7, WOS:000291711900009
- 9 Morega Mihaela, Morega A. M., "Computed SAR in Human Head for the Assessment of Exposure from Different Phone Device Antennas", *Environmental Engineering and Management Journal*, ISSN: 1582-9596, Vol. 10, Issue 4/2011, p. 527-533, JIF(2023): 0.9, WOS:000292409400009

- 10 M. Morega, Mihaela Morega, J. B. Dumitru, "Magnetic Field – Flow Interactions in a Miniature Electric Power Transformer with Magnetic Nanofluid Core and Solenoid Type Coils", *Rev. Roum. Sci. Techn. – Électrotechn. et Énerg.*, ISSN: 0035-4066, vol. 58, nr. 1/2013, p. 25-34, JIF(2023): 0.7, WOS:000319367500003
- 11 J. B. Dumitru, A. M. Morega, Mihaela Morega, "A Numerical Study of the Heat Transfer Management Provided by a Thermoelectric Sink-And-Fan System", *Rev. Roum. Sci. Techn. – Électrotechn. et Énerg.*, ISSN: 0035-4066, vol. 58, nr. 2/2013, p. 205-214, JIF(2023): 0.7, WOS:000320488100010
- 12 L. PÎSLARU-DANESCU, A. M. MOREGA, Mihaela MOREGA, V. STOICA, O.M. MARINICĂ, Florica NOURAȘ, N. PĂDURARU, I. BORBATH, Tunde BORBATH., "Prototyping a Ferrofluid-Cooled Transformer", *IEEE Trans. on Industry Applications*, ISSN 0093-9994, Vol. 49, No. 3/2013, p. 1289-1298, WOS:000319152500033, JIF(2023): 4.2, (JRC Cathegory: Q1 in Multidisciplinary Engineeringi si Q2 in Electrical & Electronic Engineering)
- 13 A.M.Morega, J.B. Dumitru, Morega, Mihaela, L. Pslaru-Dănescu, "Flow Patterns in the Magnetic Nanofluid Core of a Miniature Planar Spiral Transformer", *Environmental Engineering and Management Journal*, ISSN: 1582-9596, Vol. 12, Issue: 6/2013, p. 1171-1177, JIF (2023): 0.9, WOS:000325632500009
- 14 L. PÎSLARU-DANESCU, A. M. MOREGA, Georgeta TELIPAN, Mihaela MOREGA, J. B. DUMITRU, V. MARINESCU, "Magnetic Nanofluid Applications in Electrical Engineering", *IEEE Trans. on Magnetics*, ISSN 0018-9464, Vol. 49, No. 11/2013, p. 5489-5497, JIF(2023): 2.1 (JRC Cathegory:Q3 in Electrical&Electronic Engineering), WOS:000326246500015
- 15 Modreanu N.M., Andrei I.M., Morega Mihaela, Tudorache T., "Brushless DC Micro-Motor with Surface Mounted Permanent Magnets", *Rev. Roum. Sci. Techn. – Électrotechn. et Énerg.*, ISSN: 0035-4066, vol. 59, nr. 3/2014, p. 237-24, JIF (2023): 0.7 (JRC Cathegory: Q3 pt. Electrical and Electronic Engineering), WOS:000341801300002
- 16 M. Morega, Cristina Săvăstru, and Mihaela Morega, Measuring the Hemodynamic Flow in the Brachial-Ulnar-Radial Arterial System, *Analele Științifice ale Universității "Ovidius" din Constanța, Seria Matematică*, ISSN 1224-1784, Vol. 23(3), 2015, p.113–127, DOI: 10.1515/auom-2015-0051, JIF(2023): 0.8, (JRC Cathegory: Q2 - Mathematics, Q3 - Applied Mathematics), WOS: 000365839600010
- 17 Morega A.M., Popa M., Morega Mihaela, Pislaru-Danescu L., "Shape and Structure Optimization of a Magnetostrictive Cored Actuator", *International Journal of Heat and Technology*, Vol. 34, 2016, p. S119-S124, DOI: 10.18280/ijht.34S115, ISSN: 0392-8764, JRC(2023): 0.7, WOS:000383470400016
- 18 Gheorghe Cristina Mihaela, Morega Mihaela, Tudorache Tiberiu, Dita Ion Madalin, "High Efficiency Induction Electric Motors for the Minimization of Energy Loss and Environmental Impact", *Environmental Engineering and Management Journal*, Vol.15, Issue 12, 2016, p. 2569-2577, ISSN: 1582-9596, JIF(2023): 0.9, WOS:000393476600003
- 19 Dobrin Ion, Cernikov Alexander, Kulikov Serghei, Buzdavin Alexander, Culicov Otilia, Morega Alexandru, Nedelcu Adrian, Morega Mihaela, Popovici Iuliu, Dobrin Andrei, "A 4 T HTS Magnetic Field Generator, Conduction Cooled, for Neutron Physics Spectrometry", *IEEE Transactions on Applied Superconductivity*, Vol. 26, Issue 3, 2016, Article Number: 4500404, DOI: 10.1109/TASC.2016.2520086, ISSN: 1051-822, JIF(2023): 1.7, WOS:000370944500001
- 20 Morega Alexandru Mihail, Dobre Alin Alexandra, Morega Mihaela, "Electrical Cardiometry Simulation for the Assessment of Circulatory Parameters", *Proceedings of the Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science*, Vol. 17, Issue 3, 2016, p. 259-266, ISSN: 1454-9069, JIF(2023): 0.7, WOS:000383527500010
- 21 Pislaru-Danescu L., Morega A.M., Morega M., Bunea F., Popa M., Babutanu C.A., "A new type of linear magnetostrictive motor", *Electrical Engineering*, vol. 99, issue 2/2017, p. 601-613, ISSN: 0948-7921, eISSN: 1432-0487, DOI: 10.1007/s00202-016-0388-z, JIF(2023):1.6, WOS: 000401692600014
- 22 Morega A.M., Ordonez J., Morega Mihaela, Pislaru-Danescu, L., Dobre A.A., "Compact, interdigitated constructal design applied to supercapacitor systems", *Proc. of the Romanian Academy, Series A-Mathematics Physics Technical Sciences Information Science*, 19, pp. 255-260, Special Issue: SI, 2018, ISSN: 1454-9069, JIF(2023):0.7, WOS:000439880200027
- 23 Morega A.M., Dobre A.A., Morega Mihaela, Sandoiu Alina, "Constructal optimization of magnetic field source in magnetic drug targeting therapy", *Proc. of the Romanian Academy, Series A-*

- Mathematics Physics Technical Sciences Information Science*, 19, pp. 123-128, Special Issue: SI, 2018, ISSN: 1454-9069, JIF(2023): 0.7, WOS:000439880200005
- 24 Morega A.M., Dobre A.A., Morega, Mihaela, "The brachial electrical bioimpedance as a localized cardiovascular investigation technique", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, 63, 2, pp. 227-232, 2018, ISSN: 0035-4066, JIF(2023):0.7, WOS:000438662400019
 - 25 Morega Mihaela, Baran Ileana Maria, Morega A.M., Hussain Alnamir K.L., "On the assessment of human exposure to low frequency magnetic field at the workplace", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, 63, 2, pp. 162-171, 2018, ISSN: 0035-4066, JIF(2023):0.7, WOS:000438662400009
 - 26 Pîslaru-Dănescu L., Morega A.M., Dumitru J.B., Morega Mihaela, Popa N.C., Stoian Floriana D., Susan-Resiga D., Holotescu S., Popa M., "Miniature Planar Spiral Transformer with Hybrid, Ferrite and Magnetic Nanofluid Core", *IEEE Transactions on Magnetics*, 54, 10, October 2018, paper 4600614, pp. 1-14, Print ISSN: 0018-9464, Online ISSN: 1941-0069, DOI: 10.1109/TMAG.2018.2864162, JIF(2023):2.1, WOS:000445253900001
 - 27 Sandoiu Alina Monica, Morega Alexandru M., Morega Mihaela, "On the constructal optimal shape of magnetic field source used in magnetic drug targeting", *University "Politehnica" Bucharest, Scientific Bulletin, Series C, Electrical engineering and Computer science*, vol. 81, 1, 2019, ISSN: 2286-3540, JIF(2023): 0.2, WOS:000459478000014
 - 28 Morega A.M., Dobre A.A., Săndoiu Alina Monica, Morega Mihaela, "Numerical modeling of hemodynamic heat transfer in hyperthermia tumor ablation", *Proceedings of the Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science*, Vol. 21, issue 3, pp. 263-271, 2020, ISSN: 1454-9069, JIF(2023):0.7, WOS:000576257000009
 - 29 Baerov Roxana Maria, Morega A.M., Morega Mihaela, "Analysis of magnetotherapy effects for post-traumatic recovery of limb fractures", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, 65, 1-2, pp. 145-150, 2020, ISSN: 0035-4066, JIF(2023): 0.7, WOS:000552052900023
 - 30 Veli Yelda, Morega A. M., Pîslaru-Dănescu L., Morega Mihaela, "Numerical Simulation Analysis of a Linear Magnetostrictive Actuator", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, 65, 3-4, pp. 157-164, 2020, ISSN: 0035-4066, JIF(2023): 0.7, WOS:000608261900002
 - 31 Pîslaru-Dănescu L., Morega A.M., Chihaiia R.A., Popescu I., Morega Mihaela, Flore L., Popa M., Pătroi E.A., "New Type of Linear Magnetostrictive Motor Designed for Outer Space Applications, from Concept to End-Product", *ACTUATORS*, Vol. 10, Issue 10, 2021, art. No. 266, DOI: 10.3390/act10100266, Published: OCT 2021, ISSN 2076-0825, JIF(2023): 2.2 (Q2 Engineering, Mech; Instruments & Instrumentation), WOS:000716028400001
 - 32 Veli Yelda, Morega A. M., Pîslaru-Dănescu L., Morega Mihaela, "Planar Transformer for Energy Harvesting Applications", *University Politehnica of Bucharest Scientific Bulletin Series C - Electrical Engineering and Computer Science*, 83, 4, pp. 293-300, 2021, ISSN 2286-3540, eISSN 2286-3559, JIF(2023): 0.2 (Q4 Engineering EE) , WOS:000741473700024
 - 33 Marinescu Andrei, Morega Mihaela, "Exposure of Active Medical Implants Bearers to Electromagnetic Emissions from Wireless Power Transfer Systems", *Rev. Roumaine Sci. Techn. Electrotech. et Energ.*, 67, 2, pp. 213-218, 2022, ISSN: 0035-4066, JIF(2023): 0.7 (Q4 Engineering EE), WOS:000850185600021
 - 34 Pleava A. M., Negoită R. D., Ilișanu M. A., Mihăilescu Mona, Morega Mihaela, Călin Violeta L., Scarlat E. N., Păun I. A., "Holographic Microscopy of Cell Compartments to Build Realistic Models for Electric Field Simulation", *Romanian Reports in Physics*, 75, 1, artic. no. 602, 2023, ISSN 1221-1451, eISSN 1841-8759, JIF(2023):2.1 (Q2 Physics, Multidisciplinary), WOS: 000951079200001
 - 35 Morega Alexandru Mihail, Morega Mihaela, "A constructal perception of the electromagnetic field", *International Communications in Heat and Mass Transfer* (Pergamon-Elsevier Science LTD), Vol. 155, 2024, Article No. 107531, DOI:10.1016/j.icheatmasstransfer.2024.107531, ISSN 0735-1933, eISSN 1879-0178, JIF (2023): 6.4 (Q1 in Thermodynamics, Mechanics), WOS: 001237607500001
 - 36 Ciocăzanu Chris Maria, Stanciu N. S., Morega Mihaela, "An electrical engineering perspective on neuromodulation - characteristics of the "magnetic stimulation" procedure", *University "Politehnica" Bucharest, Scientific Bulletin, Series C, Electrical engineering and Computer science*, 86, 4, 2024, pp. 349-366, ISSN 2286-3540, eISSN 2286-3559, JIF(2023): 0.2 (Q4 Engineering EE), WOS:001380943300026

Indexate în alte BDI (Scopus, Inspec, Science Direct, EBSCO, Index Copernicus):

- 37 Morega Mihaela, Ioan D., "Romanian Experience in Computer Aided Electromagnetic Education", Applied Computational Electromagnetics Society Journal - ACES, Journal on Electromagnetic Education (<http://www.aces-society.org/journal.php>), ISSN: 10544887, Volume 8, Issue 1, 1993, pp. 125-137 (indexed in Scopus, Inspec)
- 38 Morega A. M., Morega Mihaela, "Forced convection laminar boundary layer with superposed magnetic field", Rev. Roumaine Sci. Techn. Electrotech. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 39/1994, nr.2, pp. 155-163
- 39 Morega A. M., Mocanu D., Morega Mihaela, "The EigenValue Cardiography", Rev. Roumaine Sci. Techn. Electrotech. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 41/1996, nr. 2, pp. 169-178.
- 40 Morega A.M., Morega Mihaela, "A FEM model of thermoelectric and thermomagnetic effects", Rev. Roumaine Sci. Techn. Electrotech. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 48/2003, nr. 2-3, pp. 187-197.
- 41 Morega A.M., Mocanu D., Morega Mihaela, "3D-reconstruction of the human thorax and the solution of the inverse problem in electrocardiography", Rev. Roumaine Sci. Techn. Electrotech. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 48/2003, nr. 4-5, pp. 187-197.
- 42 Morega A.M. and Morega Mihaela, "A FEM analysis of Magnetically induced biomagnetic fluid mixing", Rev. Roumaine Sci. Techn. Electrotech. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 50/2005, nr. 2, pp. 239-248
- 43 Mocanu D., Kettenbach J., Eisenberg S., Morega A.M., and Morega Mihaela, "Inverse Solutions in Electrocardiographic Imaging", Rev. Roumaine Sci. Techn. Electrotech. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 50/2005, nr. 2, pp.249-260
- 44 Mihaela Morega, "Numerical Models for Microwave Dosimetry in Human Tissue", Related to Wireless Applications, Rev. Roum. Sci. Techn. – Serie Electrotechn. et Energ., Pub. House of the Romanian Academy, ISSN: 0035-4066, tome 51/2006, nr. 2, pp. 249-261
- 45 Dumitru J.B., Morega A.M., Morega Mihaela, "Electromagnetic, flow and thermal study of a miniature planar spiral transformer with planar, spiral windings", INCAS Bul., Special Issue 1/2014, ISSN 2066 – 8201, pp. 59-66
- 46 Dumitru J.B., Morega A.M., Morega Mihaela, Pîslaru-Dănescu L., "Forced Flow Patterns in a Miniature Planar Spiral Transformer with Ferrofluid Core", INCAS Bul., Volume 7, Issue 4/ 2015, ISSN 2066 – 8201, pp. 85-94
- 47 M. Morega, M. Popa, Mihaela Morega and L. Pîslaru-Dănescu, "Shape and Structure Optimization of a Magnetostrictive Cored Actuator", International Journal of Heat and Technology, Vol. 34 (2016), ISSN: 03928764, Special Issue 1, p.S119-S124, <http://dx.doi.org/10.18280/ijht.34S115>

Rio – Alte reviste de specialitate de circulație internațională.

- 1 Mocanu C., Morega A. M., Morega Mihaela, "On The Difficulties of Thomas - Wigner Rotation", *Hadronic Journal*, vol. 18/1995, no. 1, pp. 63 - 96, ISSN 0036-8091
- 2 Morega A. M. , Morega Mihaela, "A constructal principle based optimal design for photovoltaic cell architectures", *Romanian Journal of Physics, Pub. House of the Romanian Academy*, ISSN 1221-146X, Vol. 49/2004, Nos. 9-10, pp.919-936, Indexed and abstracted in Science Citation Expanded™ and Journal Citation Reports™/Science Edition
- 3 D. Mocanu, A. M. Morega, Mihaela Morega, "Electrical Rhythms in Paced Cardiac Fibers", *Acta Electrotehnica*, Special Issue (selected papers from the 1st International Conference on Advancements of Medicine and Health Care through Technology, MediTech2007), vol. 48, nr. 4, 2007, ISSN 1841-3323, pp. 315-318
- 4 Mihaela Morega, A. M. Morega, M. Neagu, "Analysis of Electromagnetic and Thermal Coupled Fields in Microwave Therapy", *Acta Electrotehnica*, Special Issue (selected papers from the 1st International Conference on Advancements of Medicine and Health Care through Technology, MediTech2007), vol. 48, nr. 4, 2007, ISSN 1841-3323, pp. 357-360
- 5 Mihaela Morega, A.M. Morega, Alina Machedon, "Microwave Applicator for Soft Tissue Hyperthermia", *Nonlinear Optics Quantum Optics Journal*, Old City Pub. House, ISSN 1543-0537, Vol. 39, Issue 2-3, 2009, pp. 151-163
- 6 M. Morega, Mihaela Morega, S. C. Faur, "Field-Substance Interactions in Magnetically Driven

Micro-Stirring Devices", *Nonlinear Optics, Quantum Optics Journal*, Old City Pub. House, ISSN 1543-0537, Vol. 39, Issue 2-3, 2009, pp. 165-175

- 7 Morega A. M., Savastu Cristina., Morega Mihaela, "An Adaptive Magnetic Field Source for Magnetic Drug Fixation", *International Journal of Monitoring and Surveillance Technologies Research (IJMSTR)*, Vol. 1/2013, Issue 4, pp. 20-33, DOI: 10.4018/ijmstr.2013100103

Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS. Se menționează Categoria CNCSIS.

- 1 Morega Mihaela - "Niveluri uzuale ale expunerii organismelor umane la câmpuri electrice și magnetice", *Rev. EEA Electrotehnica*, vol. 42 (1994), nr. 7, p. 9-16
- 2 Morega Mihaela - "Forțe electromagnetice în înfășurările transformatoarelor de putere în regimul tranzitoriu de scurtcircuit", *Rev. EEA Electrotehnica*, vol. 43/1995, nr. 1-2, p. 27-33.
- 3 Morega Mihaela, Ofrim Cornelia, - "Modelare matematică și experimentală a comportării electrice a celulei excitabile polarizate", *Rev. EEA Electrotehnica*, vol. 44/1996, nr. 7-8, p. 18-25.
- 4 Morega Mihaela, Covrig M. - "Modele analitice pentru estimarea nivelului de expunere a organismelor la câmp magnetic de foarte joasă frecvență", *Rev. EEA Electrotehnica*, vol. 44/1996, nr. 1-2, p. 18-22.
- 5 Craiu O., Dan N., Morega Mihaela, Covrig M. - "Calculul cuplului la motorul de c.c. cu magneți permanenți. Influențe specifice", *Rev. EEA Electrotehnica*, vol. 44/1996, nr. 1-2, p. 34-39
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- 7 A. M. Morega, I. Dobrin, M. D. Popescu, Mihaela Morega, L. Pîslaru-Dănescu, "Numerical Heat Transfer in the Design Phase of a Synchronous Superconducting Machine", *EEA Journal*, ISSN 1582-5175, vol. 60 (2012), nr. 1, pp. 44-49

Rno - Alte reviste de specialitate de circulație națională.

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Vn - Volumele unor manifestări științifice naționale.

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

B - Brevete de invenție.

- 1 Patent nr. RO126613-A0 (2011), RO126613-B1 (2014), "Transformer with magnetic nanofluid cooling agent, has identical cores, and high and low voltage windings" Authors: PISLARU-DANESCU L, MACAMETE E, TELIPAN G, PINTEA J, NOURAS F, PADURARU N, VEKAS L, STOIAN F D, BORBATH I, BORBATH T, MOREGA A, MOREGA M. Patent Assignee Name(s) and Code(s): INST NAT CERC DEZVOLTARE ELECTROCHIMIE (NADE-Non-standard), ICMET INST NAT CERC DEZVOLTARE INCERCARI (ICME-Non-standard), ROSEAL SA (ROSE-Non-standard), Derwent Primary Accession Number: 2011-Q12673 [10]
- 2 Patent nr. RO129685-A0 (2014), "Sonic magnetostrictive motor", Authors: PISLARU-DANESCU L, MOREGA A M, MOREGA M, LIPAN L C, BUNEA F, Patent Assignee Name(s) and Code(s): INST NAT CERC DEZVOLTARE ELECTROCHIMIE (NADE-Non-standard), Derwent Primary Accession Number: 2014-P50886 [82]

A - Inovații sau creații artistice.

- 1 Brevet de invenție nr. 82124/1982, „Înfășurări în galeți continui cu mai multe căi de curent în paralel”, IPB
- 2 Brevet de invenție nr. 91939/1986, "Transformator trifazat uscat de putere mică și joasă tensiune", ICPE
- 3 Brevet de invenție nr. RO126613-A0 (2011), "Transformator cu agent de răcire cu nanofluid magnetic", ICPE CA

VI. 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).

Pn – naționale

- 1 "Cîmpurile electrice și magnetice de joasă frecvență produse de instalațiile electrotehnice, factor de poluare electromagnetică a mediului biologic", 1995 - 1997, Programul Orizont 2000, contract 510BT/1995 (tema B3/1995), nr. intern. 3-95-11, contract 836/1996 (tema A101/1996) și contract 836/1997 aa 712/III/1997 (tema A101/1997), Valoare: 19 mil. lei, **Responsabil contract: Mihaela Morega**
- 2 "Procedee tehnice și modelare numerică în electrostimularea țesuturilor biologice excitabile", 1996 - 1998, Programul Orizont 2000 (MCT), contract 836(1)/1996 (tema B63/1996), nr. intern 3-96-15, contract 836/1997 aa 712/III/1997 (tema A113/1997), contract 836/1998 aa 631/I din 8.07.1998 (tema A116/1998), Valoare: 42 mil. lei, **Responsabil contract: Mihaela Morega**
- 3 "Acuratețea modelării numerice a structurilor anatomo-fiziologice. Studii calitative și cantitative cu aplicații în ingineria electrică medicală", 1999 - 2000, Programul Orizont 2000 (ANSTI), contract 836/1996, aa 334/1999/II, (tema B26/1999) și aa 122/II/20.01.2000 (tema A30/2000), Valoare totală: 37 mil. lei, **Responsabil contract: Mihaela Morega**
- 4 "Modelarea câmpului electromagnetic în condiții specifice expunerii utilizatorilor de telefonie mobilă", 2002-2004, Grant A CNCSIS, comisia 2 Științe ingineresti, contract 33784/2002-cod CNCSIS 345, contract 33552/2003-cod CNCSIS 469, contract 33380/2004-cod CNCSIS 469 (poziția nr. 41 din anexa nr. 1 la contract), Valoare totală: 219,825 mil. lei, **Director grant: Mihaela Morega**
- 5 "Dozimetrie în domeniul microundelor pentru aplicații în biologie și medicină", 2005 - 2007, Grant A CNCSIS, Comisia Științe ingineresti, contract 27692/2005-cod CNCSIS 357, nr. intern ET 03-06-05, Valoare totală: 29200 lei, **Director grant: Mihaela Morega**
- 6 "Ecologie electromagnetică – caracterizarea surselor, diagnosticarea efectelor, prevenirea și combaterea lor (EcoEM)", 2005 - 2008, Programul CEEEX (Agentia CALIST), contract 6115/10.10.2005, tema PC-D06-PT10-464, Contractor și coordonator proiect: INC DIE ICPE-CA, Partener P1: UPB, Valoare: 150000 lei, nr. intern ET 03-05-06, **Responsabil partener UPB - Mihaela Morega**
- 7 "Sisteme Modulare Inteligente pentru Actionari Electrice de Mica Putere – SIMODIN (Modular Intelligent Systems for Low Power Drives)", 2008-2010, Programul PNCDI_II, INOVARE (agentia AMCSIT), contract 181/2008, Contractor și coordonator proiect: ICPE București, Partener P2:

F – Alte lucrări de cercetare – dezvoltare

- 1 "Convective cooling of electronic packages", 1992-1993, Contract RAL R01664 - 01 / 1992, in cadrul stagiului de cercetare visiting Scholar, Duke University, 1992-1993
- 2 "Studii asupra proceselor difuziv-convective in tehnologiile specifice creşterii cristalelor pentru materiale electrotehnice si electronice", 1998 - 1999, Grant CNCSU de colaborare bilaterala Romania-Japonia, nr. 836/1998
- 3 "New cardiovascular planning and diagnostic tool for coronary arteries in BSEC countries using computational simulation", 2009, Program Black Sea European Countries - parteneriat Serbia, Grecia, Romania
- 4 "Emerging EMF Technologies and Health Risk Management", 2008-2012, Actiune COST BM0704, membru din partea RO in Management Committee
- 5 "European network for innovative uses of EMFs in biomedical applications (EMF-MED)", 2014-2018, Actiune COST BM1309, membru din partea RO in Management Committee
- 6 "European network for advancing Electromagnetic hyperthermic medical technologies (MyWAVE)", 2018-2022, Actiune COST CA 17115, membru din partea RO in Management Committee