

# LISTA DE LUCRĂRI

Prof. dr. ing. MIHAELA MOREGA

## I. TEZA (E) DE DOCTORAT (T)

"Solicitări ale mașinilor electrice statice la funcționarea în regimuri tranzitorii. Regimul de scurtcircuit al transformatoarelor electrice", Conducător doctorat: Prof. dr. ing. Constantin Bălă, Universitatea "Politehnica" din București (fost Institutul Politehnic București, Facultatea de Inginerie Electrică (fostă Electrotehnică), diploma nr. ...., 1988.

## II. CĂRȚI PUBLICATE (C)

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

1. **Morega Mihaela**, Morega Al.M., Gheorghe Adina, Machedon Alina - *Probleme de Bioinginerie. Modele numerice*, MatrixRom 2001, ISBN – 973-685-321-7, 160 p.
2. Fransua Alexandru, Covrig Mircea, **Morega Mihaela**, Vasile, Nicolae - *Introducere în teoria convertoarelor electromecanice*, Ed. Printech, București, 1999, ISBN 973-9475-70-1, 187p.
3. **Morega Mihaela**, Machedon Alina, Gheorghe Adina Andreea - *Mașini Electrice pentru Acționări în Transporturi*, Ed. MatrixRom, București 2000, ISBN 973-685-061-7, 182 p.

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

1. **Morega Mihaela** - *Bioelectromagnetism*, Ed. MatrixRom, București, 1999, ISBN 973-685-056-0, 246 p.
2. Fransua Alexandru, Covrig Mircea, **Morega Mihaela**, Vasile, Nicolae - *Conversia electromecanică a energiei*, Ed. Tehnică, București, 1999, ISBN 973-31-1373-5, 196 p.

### 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, 138 p.
2. Mihalache M., **Morega Mihaela**, Kreindler L., Covrig M. - *Electrotehnică și mașini electrice - îndrumar de laborator*, IPB 1990, 115 p.
3. **Morega Mihaela** - *Mașini și elemente de acționări electrice - note de curs*, UPB, 1994, 163 p.
4. Țogui Luxandra, **Morega Mihaela** - *Mașini electrice - îndrumar de aplicații*, UPB, 1997, 162 p.
5. **Morega Mihaela**, Morega Al. M. - *Modelare în bioinginerie - îndrumar de aplicații*, UPB, 1998, 74p.
6. **Morega Mihaela**, Machedon Alina - *Mașini electrice - îndrumar pentru aplicații*, Ed. MatrixRom, București, editia I/2002, ISBN 973-685-481-7, 65 p., editia II/2005, ISBN 973-685-978-9, 77 p.

### 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, 30 p.

2. **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
3. 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
4. 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", Eds. S. Ion, C. Popa, Ed. MatrixRom, 2012, ISBN 978-973-755-772-8 p. 87-96
5. 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
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>

#### E – Materiale didactice in format electronic.

1. **Mihaela Morega** - *Convertoare electromecanice (Masini electrice)* - note de curs in format electronic, 1996 - prezent (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online>), 194 p.
2. **Mihaela Morega** - *Convertoare electromecanice (Masini electrice)* - lucrari de laborator si aplicatii numerice - format electronic, 2008 – prezent, 64 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online/>)
3. **Mihaela Morega** - *Bioelectromagnetism - note de curs in format electronic*, 1996 - prezent (se actualizeaza anual si se incarca pe situl de cursuri <http://cursuri.iem.pub.ro>), 294 p.
4. **Mihaela Morega** - *Bioelectromagnetism/Semnale bioelectrice* - lucrari de laborator, format electronic, 2009 – prezent, 84 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://cursuri.iem.pub.ro>)
5. **Mihaela Morega** - *Mediul electromagnetic (Modulul 1 al cursului "Evaluarea impactului sistemelor electrice asupra mediului"*, note de curs, 2010 - prezent, 98 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online/>)
6. **Mihaela Morega** - *Mediul electromagnetic (Modulul 1 al disciplinei "Evaluarea impactului sistemelor electrice asupra mediului"*, lucrari de laborator - format electronic, 2010 – prezent, 40 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online/>)
7. **Mihaela Morega** - *Semnale Bioelectrice* - note de curs in format electronic, 2009 – prezent, 232 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online/>)
8. **Mihaela Morega** - *Optimizare tehnico-economica* - note de curs in format electronic, 2006 – prezent, 157 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online/>)
9. **Mihaela Morega** - *Optimizare tehnico-economica* - miniproiecte de modelare numerica - format electronic, 2008 – prezent, 24 p. (se actualizeaza anual si se incarca pe situl de cursuri <http://www.electro.pub.ro/utile/suport-cursuri-online/>)

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

**Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanta).**

##### Reviste indexate ISI Thomson Reuters

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, Accession Number: WOS:A1994NE24800042, JIF 2014: 2.383
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, Accession Number: WOS:000257350500009, JIF 2014: 0.333
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, Accession Number: WOS:000260440200010, JIF 2014: 0.333
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, Accession Number: WOS:000264503000007, JIF 2014: 0.333
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, Numbers 1– 2, 2010, p.195-204, Accession Number: WOS:000275925800018, JIF 2014: 0.924
6. A.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, Accession Number: WOS:000277006700001, JIF 2014: 0.333
7. A. A. 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, Accession Number: WOS:000291711900010, JIF 2014: 0.333
8. A. 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, Accession Number: WOS:000291711900009, JIF 2014: 0.333
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, Accession Number: WOS:000292409400009, JIF 2014: 1.065
10. A. 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, Accession Number: WOS:000319367500003, JIF 2014: 0.333
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, Accession Number: WOS:000320488100010, JIF 2014: 0.333

12. Pişlaru-Danescu, A. M. Morega, **Mihaela Morega**, V. Stoica, O.M. Marinică, Florica Nouruş, 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, Accession Number: WOS:000319152500033, JIF 2014: 1.756
13. A.M. Morega, J.B. Dumitru, **Mihaela Morega**, 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, Accession Number: WOS:000325632500009, JIF 2014:1.065
14. Pişlaru-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, Accession Number: WOS:000326246500015, JIF 2014: 1.386
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. 237-247, Accession Number: WOS:000341801300002, JIF 2014: 0.333
16. A. M. Morega, Cristina Săvăstru, and **Mihaela Morega**, "*Measuring the Hemodynamic Flow in the Brachial-Ulnar-Radial Arterial System*", Analele Ştiinţifice ale Universităţii "Ovidius" din Constanţa, Seria Matematică, ISSN 1224-1784, Vol. 23(3), 2015, p.113–127, DOI: 10.1515/auom-2015-0051, Accession Number: WOS: 000365839600010, JIF 2014: 0.333

#### Reviste indexate în alte BDI specifice domeniului

1. **Morega Mihaela**, Ioan D., "*Romanian Experience in Computer Aided Electromagnetic Education*", ACES Journal on Electromagnetic Education (<http://www.aces-society.org/journal.php>), Volume 8, Issue 1, 1993, Pages 125-137. (Indexat: Scopus)
2. Morega A., M., **Morega Mihaela**, "*Forced convection laminar boundary layer with superposed magnetic field*", Rev. Roumaine Sci. Techn. Electrotech. et Energ., ISSN: 0035-4066, tome 39/1994, nr.2, p. 155-163 (Indexat: Inspec, WorldCat, British Lybrary, Google Scholar)
3. Mocanu C., Morega A. M., **Morega Mihaela**, "*On The Difficulties of Thomas - Wigner Rotation*", Hadronic Journal, vol. 18/1995, no. 1, p. 63 - 96, ISSN 0036-8091 (Indexat: Science abstract, Google Scholar)
4. Morega A. M., Mocanu D., **Morega Mihaela**, "*The EigenValue Cardiography*", Rev. Roumaine Sci. Techn. Electrotech. et Energ., ISSN: 0035-4066, tome 41/1996, nr. 2, p. 169-178. (Indexat: Inspec, WorldCat, British Lybrary, Google Scholar)
5. Morega A.M., **Morega Mihaela**, "*A FEM model of thermoelectric and thermomagnetic effects*", Rev. Roumaine Sci. Techn. Electrotech. et Energ., ISSN: 0035-4066, tome 48/2003, nr. 2-3, p. 187-197. (Indexat: Inspec, WorldCat, British Lybrary, Google Scholar)
6. Morega A.M., Mocanu D., **Morega Mihaela**, "*3D-reconstruction of the human thorax and the solution of the inverse problem in electrocardiography*", Rev. Roum. Sci. Techn. Electrotech. et Energ., ISSN: 0035-4066, tome 48/2003, nr. 4-5, p. 187-197. (Indexat: Inspec, WorldCat, British Lybrary, Google Scholar)
7. Morega A. M., **Morega Mihaela**, "*A constructal principle based optimal design for photovoltaic cell architectures*", Romanian Journal of Physics, 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)
8. Morega A.M. and **Morega Mihaela**, "*A FEM analysis of Magnetically induced biomagnetic fluid mixing*", Rev. Roum. Sci. Techn. Electrotech. et Energ., ISSN: 0035-4066, tome 50/2005, nr. 2, p. 239-248 (Indexat: Inspec, World Cat, British Lybrary, Google Scholar)
9. Mocanu D., Kettenbach J., Eisenberg S., Morega A.M., and **Morega Mihaela**, "*Inverse Solutions in Electrocardiographic Imaging*", Rev. Roum. Sci. Techn. Electrotech. et Energ, ISSN: 0035-4066, tome 50/2005, nr. 2, p.249-260 (Indexat: Inspec, World Cat, British Lybrary, Google Scholar)

10. **Mihaela Morega**, "Numerical Models for Microwave Dosimetry in Human Tissue", Related to Wireless Applications, Rev. Roum. Sci. Techn. – Serie Electrotechn. et Energ., ISSN: 0035-4066, tome 51/2006, nr. 2, p. 249-261 (Indexat: Inspec, World Cat, British Library, Google Scholar)
11. 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, p. 315-318 (Indexat: Google Scholar)
12. **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, p. 357-360 (Indexat: Google Scholar)
13. **Mihaela Morega**, A.M. Morega, Alina Machedon, "Microwave Applicator for Soft Tissue Hyperthermia", Nonlinear Optics Quantum Optics Journal, ISSN 1543-0537, Old City Pub. House, Vol. 39, Number 2-3, 2009, p. 151-163 (Indexat: Scopus, EBSCO, Engineering Info. USA)
14. A.M. Morega, **Mihaela Morega**, S. C. Faur, "Field-Substance Interactions in Magnetically Driven Micro-Stirring Devices", Nonlinear Optics, Quantum Optics Journal, ISSN 1543-0537, Old City Pub. House, Vol. 39, Number 2-3, 2009, p. 165-175 (Indexat: Scopus, EBSCO, Engineering Info. USA)
15. A. M. Morega, I. Dobrin, M. D. Popescu, **Mihaela Morega**, L. Pişlaru-Dănescu, "Numerical Heat Transfer in the Design Phase of a Synchronous Superconducting Machine", EEA Journal, ISSN 1582-5175, vol. 60 (2012), nr. 1, p. 44-49 (Indexat: Engineering Village, Scopus, IndexCopernicus Intl.)
16. Morega A. M., Savastru 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 (Indexat: RefWorks, Google Scholar)
17. 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, p. 59-66 (Indexat: IndexCopernicus CrossRef, SCPIO)
18. Dumitru J.B., Morega A.M., **Morega Mihaela**, Pişlaru-Dănescu L., "Forced Flow Patterns in a Miniature Planar Spiral Transformer with Ferrofluid Core", INCAS Bul., Volume 7, Issue 4/ 2015, ISSN 2066 – 8201, p. 85-94 (Indexat: IndexCopernicus CrossRef, SCPIO)
19. Dobrin I., Cernikov A., Kulikov S., Buzdavin A., Culicov O., Morega A.M., Nedelcu A., **Morega Mihaela**, Popovici I., Dobrin A., "A 4 T HTS Magnetic Field Generator, Conduction Cooled, for Neutron Physics Spectrometry", IEEE Transactions on Applied Superconductivity ISSN : 1051-8223 , Volume: 26 (2016) , Issue: 3, DOI: 10.1109/TASC.2016.2520086 (Indexat: Scopus, IEEE Xplore, Google Scholar)
20. A.M. Morega, M. Popa, **Mihaela Morega** and L. Pişlaru-Dănescu, "Shape and Structure Optimization of a Magnetostrictive Cored Actuator", International Journal of Heat and Technology, Vol. 34 (2016), Special Issue 1, p.S119-S124, <http://dx.doi.org/10.18280/ijht.34S115> (Indexat: Scopus, Google Scholar)

#### Rio – Alte reviste de specialitate de circulație internațională.

1. Mocanu C.,I., **Morega Mihaela**, Morega Al. M., "On The Thomas-Wigner Rotation Paradox", *Hadronic Journal*, vol. 16/1993, no. 4, p. 295 - 329.

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

1. Mereanu A., **Rizeanu (Morega) Mihaela** și, "Serie unitară de transformatoare trifazate uscate de puteri 1...315 kVA și tensiuni până la 1000V", *Revista EEA Electrotehnica*, ISSN 0376-4745, vol. 31/1983, no.7, p. 259 – 264, COD CNCSIS 465 – Categoria B+
2. Mereanu A., **Rizeanu (Morega) Mihaela**, "Serie unitară de transformatoare trifazate uscate navale de puteri 1...315 kVA", *Revista EEA Electrotehnica*, ISSN 0376-4745, vol. 32/1984, no.1, p. 5-9, COD CNCSIS 465 – Categoria B+

3. **Morega Mihaela**, "*Niveluri uzuale ale expunerii organismelor umane la câmpuri electrice și magnetice*", Revista EEA Electrotehnica, ISSN 0376-4745, vol. 42/1994, nr. 7, p. 9-16, COD CNCSIS 465 – Categoria B+
4. **Morega Mihaela**, "*Forțe electromagnetice în înfășurările transformatoarelor de putere în regimul tranzitoriu de scurtcircuit*", Revista EEA Electrotehnica, ISSN 0376-4745, vol. 43/1995, nr. 1-2, p. 27-33, COD CNCSIS 465 – Categoria B+
5. **Morega Mihaela**, Ofrim Cornelia, "*Modelare matematică și experimentală a comportării electrice a celulei excitabile polarizate*", Revista EEA Electrotehnica, ISSN 0376-4745, vol. 44/1996, nr. 7-8, p. 18-25, COD CNCSIS 465 – Categoria B+
6. **Morega Mihaela**, Covrig M., "*Modele analitice pentru estimarea nivelului de expunere a organismelor la câmp magnetic de foarte joasă frecvență*", Revista EEA Electrotehnica, ISSN 0376-4745, vol. 44/1996, nr. 1-2, p. 18-22, COD CNCSIS 465 – Categoria B+
7. Craiu O., Dan N., **Morega Mihaela**, Covrig M., "*Calculul cuplului la motorul de c.c. cu magneți permanenți. Influențe specifice*", Revista EEA Electrotehnica, ISSN 0376-4745, COD CNCSIS 465 – Categoria B+
8. **Morega Mihaela**, Morega Al. M., "*Procedeu tehnic și model matematic pentru stimularea pe cale magnetică a sistemului nervos*", Revista EEA Electrotehnica, ISSN 0376-4745, vol. 44/1996, nr. 9-10, p. 14-20, COD CNCSIS 465 – Categoria B+

#### Rno - Alte reviste de specialitate de circulație națională.

1. **Morega Mihaela**, "*Câmpuri electrice și magnetice de joasă frecvență aplicate sistemelor biologice*", *Rev. Studii și Cercetări de Biotehnologie*, vol. 26/1994, p. 16 – 28
2. **Morega Mihaela**, "*Stimulatoare Cardiace Implantabile*", *Rev. Studii și Cercetări de Biotehnologie*, vol. 29-30/1997, p. 65-73
3. **Morega Mihaela**, *Design of coils for magnetic neural stimulation. Efficiency criteria and technical solutions*. ACTA Electrotehnica ISSN 2344-5637, vol. 41, nr. 1, 2000, p. 133-138
4. **Morega Mihaela**, *Stimularea prin inducție electromagnetică - posibilități de optimizare constructivă a stimulatorului*, Revista RAM Medica, nr. 5/2004.
5. **Mihaela Morega**, *Reglementari privind expunerea populației la camp electromagnetic in domeniul microundelor*, Buletinul ACER ISSN 1453-9055, nr. 12/2005, p. 7-15
6. **Morega Mihaela**, *Modelarea campului electromagnetic in conditii specifice expunerii utilizatorilor de telefonie mobila*, Revista de Politica a Stiintei si Scientometrie ISSN 1582-1218, numar special, 2005
7. **Mihaela Morega**, *Orientarea si monitorizarea cercetarii in domeniul biocompatibilitatii electromagnetice prin programul European COST*, Buletinul ACER ISSN 1453-9055, nr. 15/2007, p. 9-12

**Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță.**

#### Proceedings indexate ISI Thomson Reuters

1. Morega Al. M., **Morega Mihaela**, "*Superimposed magnetic field in forced convection laminar boundary layer*", Proc. of the 10th Annual Review of Progress in Applied Computational Electromagnetics, ACES' 94, Naval Postgraduate School, Monterey, California, USA, martie 1994, p. 256-263, Accession Number: WOS:A1994BD46Z00031
2. Morega Al., Mocanu D., **Morega Mihaela**, Stefan Anca, "*A Dynamic Model for Cardiac Defibrillation*", Proc. of the 18th Annual Int. Conf. IEEE-EMBS, Oct. 31 - Nov. 3, 1996, Amsterdam, vol. 5, paper no. VTCP7-1, p. 2291-2292, ISBN:0-7803-3812-X, Accession Number: WOS:000072079001104

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25. Nicolae Mircea Modreanu, Mihai Iulian Andrei, Tiberiu Tudorache, **Mihaela Morega**, "Micromotor de curent continuu fara perii în construcție inversată", Simpozionul Național de Mașini Electrice, SME-2013, octombrie 2013, București

## V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

### B - Brevete de invenție.

1. Brevet de invenție nr. 82124 / 1982 "Înfășurări în galeți continui cu mai multe căi de curent în paralel", Autori: Bălă C., Morega A.M., **Rizeanu (Morega) M.**, Titular: UPB (brevet înregistrat OSIM 1982)
2. Brevet de invenție nr. 91939 / 1986 "Transformator trifazat uscat de putere mică și joasă tensiune", Mereanu A., Jiletcovici V., Fercău N., **Rizeanu (Morega) M.**, Olaru C., Titular: ICPE București (brevet înregistrat OSIM 1986)
3. Patent nr. RO126613-A0 (2011), RO126613-B1 (2014), "Transformator cu agent de răcire cu nanofluid magnetic / Transformer with magnetic nanofluid cooling agent", Pîslaru-Dănescu L., Macamete E., Telipan G., Pinteș J., Nourăș F., Păduraru N., Vekas L., Stoian F.D., Borbath I., Borbath T., Morega A.M., **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]
4. 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 și alte creații.

## VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

### P – Proiecte de cercetare-dezvoltare-inovare obținute prin competiție, pe bază de contract/grant

#### Pn – naționale

#### Participare ca Director sau Responsabil

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 510B/1995, 836/1996 și 836/1997, (tema B3/1995, A101/1996 și A101/1997).
2. "Procedee tehnice și modelare numerică în electrostimularea țesuturilor biologice excitabile", 1996 - 1998, Programul Orizont 2000, contract 836(1)/1996 (tema B63/1996, A113/1997, A116/1998).
3. "Acuratețea modelării numerice a structurilor anatomo-fiziologice. Studii calitative și cantitative cu aplicații în ingineria electrică medicală", 1999 - 2000, Programul Orizont 2000, contract 836/1996, aa 334/1999/II, (tema B26/1999) și aa 122/I/2000 (tema A30/2000).

4. "Modelarea câmpului electromagnetic în condiții specifice expunerii utilizatorilor de telefonie mobilă", 2002-2004, Grant A CNCSIS, contract 33784/2002-cod 345, contract 33552/2003-cod 469, contract 33380/2004-cod 469
5. "Dozimetrie in domeniul microundelor pentru aplicatii in biologie si medicina", 2005 - 2007, Grant A CNCSIS, contract 27692/2005-cod 357
6. "Ecologie electromagnetica – caracterizarea surselor, diagnosticarea efectelor, prevenirea si combaterea lor (EcoEM)", 2005 - 2008, Programul CEEEX, contract 6115/2005, tema PC-D06-PT10-464
7. "Sisteme Modulare Inteligente pentru Actionari Electrice de Mica Putere – SIMODIN (Modular Intelligent Systems for Low Power Drives)", 2008-2010, Programul PNCDI\_II, INOVARE, contract 181/2008

#### **Participare ca Membru în echipă**

1. "Proiectarea seriei de transformatoare trifazate uscate de puteri 1 - 315 kVA și tensiuni până la 1000 V-constructie normală și tropicalizată", 1980 - 1982, contract de cercetare - executantii ICPE Bucuresti, UPB, beneficiar Electrocontact Botosani
2. "Distribuția supratensiunilor în transformatoarele electrice uscate", 1983 - 1984, contract nr. 4-3-3/83, executant UPB, beneficiar Electroputere Craiova
3. "Reproiectarea automată a seriilor de transformatoare trifazate uscate de puteri 1 - 315 kVA și tensiuni sub 1000 V", 1986 - 1987, contract nr. 3-6-4/86, executant:UPB, beneficiar Electrocontact Botosani
4. "Proiectarea automată a motoarelor asincrone trifazate", 1986 - 1987, contract nr. 3 - 6 - 7 / 86, executant: UPB, beneficiar:Intr. Motoare Electrice Pitesti
5. "Optimizarea unghiului de decalaj între înfășurări la motoarele asincrone monofazate pentru mașini de spălat rufe". 1988 - 1989, contract nr. 3 - 9 - 4 / 89, executant UPB, beneficiar: Intr. Motoare Electrice Pitesti
6. "Realizări actuale în răcirea structurilor electronice (componente, circuite și dispozitive), 1995 - 1996, Grant A CNCSU, nr. 4001/1995
7. "Cercetări privind câmpul electromagnetic în medii în mișcare la viteze mari. Elaborarea electrodinamicii macroscopice Hertzienne compatibilă cu teoria Maxwell - Hertz și complementară cu teoria relativității", 1994 - 1996, Programul Orizont 2000, contract 337C/1994, 510B/1995, 836/1996
8. "Procese convective difuzive naturale in incinte rectangulare", 1997 - 1998, Grant de cercetare finantat prin Academia Romana, nr. 3042GR/1997
9. "Analiza problemelor directă și inversă in electrocardiografie", 1998 - 2000, grat de cercetare tip A CNCSU, contract 32/1998, cod 616/1998, 705/1999, 705/2000
10. Grantul educațional "Perfecționarea învățământului electric medical - program interdisciplinar de studii universitare", 1998 - 2001, grant CNFIS II / Banca Mondial, tema 89
11. "Dezvoltarea si consolidarea resurselor de cercetare pentru investigarea prin modelare numerica a unor procese fizice proprii obtinerii materialelor multifunctionale si a interactiunilor camp-substanta", 2004, grant CNCSIS tip E, cod 27/2004
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13. "Dispozitiv computerizat de precizie pentru recuperarea ortopedica a membrului superior", 2004, Program RELANSIN, contract nr. 2134/2004
14. Arhitecturi constructale pentru materiale si structuri utilizate in electrotehnica si electronica, 2005 - 2006, grant CNCSIS tip A, cod 358/2005
15. "Modelare matematică în procese de difuzie - MODMATDIF", 2005 - 2007, contract in Programul CEEEX
16. "Cercetari teoretice si experimentale privind cresterea eficientei conversiei electromecanice a energiei prin reducerea pierderilor din fierul masinilor electrice - PFE", 2006 - 2008, Program CEEEX, contract nr. 178/2006

17. "BIOINGTEH – Platforma interdisciplinara pentru cercetare, dezvoltare si formare profesionala", 2006 - 2008, grant CNCSIS, cod 54/ 2006
18. "Integrarea si exploatarea informatiilor referitoare la distributia densitatii trasnetelor pe teritoriul Romaniei in activitatea de mentenanta a infrastructurii de transport si distributie a energiei electrice", 2007 - 2009, Program PNCDI II Parteneriate, contract nr. 21-067/2007
19. "Motoare de cuplu ridicat pentru echiparea instalatiilor radar - M4RADARS", 2007 - 2009, Programul PNCDI\_II INOVARE
20. "Compatibilitatea functionala a echipamentelor electrotehnice speciale, cu ferrofluide magnetice (trecheri izolate, transformatoare de masura, onduloatoare pentru microparticule fizice, divizoare de tensiune la frecventa industrială - CFEEL", 2008 - 2010, Programul "Parteneriate in domenii prioritare", Directia de cercetare ENERGIE, Contract 043/2008
21. "Generator eolian de 3KW pentru zone urbane - GENOLV", 2008 - 2010, Program PNCDI\_II INOVARE
22. "Integrarea si exploatarea informatiilor referitoare la distributia densitatii trasnetelor pe teritoriul Romaniei in activitatea de mentenanta a infrastructurii de transport si distributie a energiei electrice", 2007 - 2009, Programul PNCDI\_II Parteneriate, Contract 21-067/2007
23. "Motor electric supraconductor - MES", 2009-2010, Program PNCDI\_II Parteneriate
24. "Noi tipuri de actuatori specifici aplicațiilor spațiale – ACTOSPACE", 2013 – 2015, Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațială și Cercetare Avansată STAR, Agenția Spațială Romană ROSA, Contractnr. 88/29.11.2013
25. "Electromagnet supraconductor dipolar pentru generarea de câmp magnetic intens și uniform – EMSD", 2014-2016, Programul PNCDI\_II Parteneriate, PN-II-PT-PCCA-2013-4-0866
26. "Sistem hibrid de recoltare a energiei din mediulinconjurator prin conversie fotovoltaica si piezoelectrica, transformare dc/dc cu integrare MEMS si stocare adaptiva – ASEMEMS HARVEST", 2014-2016, Programul PNCDI\_II Parteneriate, PN-II-PT-PCCA-2013-4-0486

## **Pi – internationale**

### **Participare ca membru în echipă**

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 creșterii 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

## **F – Alte lucrări de cercetare – dezvoltare**

## **VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)**

### **E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.**

1. **Mihaela Morega**, "*Major areas in Romanian computational electromagnetic research and development*", International Forum, Reports from International Regional Representatives concerning topics of technical importance in each region - Eastern Europe, The 7th Annual Review of Progress in Applied Computational Electromagnetics, ACES' 91, The Naval Postgraduate School, Monterey, California, USA, March 1991
2. A.M. Morega, **Mihaela Morega**, "*Magnetic Field Control on Magnetic Fluid Micro-channel Flow*", Romanian FLUENT Users Group Meeting, Sinaia, Romania, March 31, 2006
3. **Mihaela Morega**, "*Determinarea SAR prin modelare numerica*", Lucrare invitata la Workshop-ul "Prezentarea Laboratorului pentru evaluarea si certificarea SAR la terminale utilizate in telefonie mobila", ICMET-Craiova, 5 august 2009
4. **Mihaela Morega**, "*Posibilitati de implicare si participare la proiectele internationale de cercetare in domeniul bioelectromagnetismului*", Workshop de Compatibilitate electromagnetica si Bioelectromagnetica, Sibiu, 20 Aprilie 2010
5. **Mihaela Morega**, "*Mijloace de investigare pentru dozimetria in domeniul microundelor, cu aplicatii in utilizarea telefoanelor mobile*", Workshop de Compatibilitate electromagnetica si Bioelectromagnetica, Sibiu, 20 Aprilie 2010
6. **Mihaela Morega**, "*Therapeutic use of electromagnetic fields*", Invited presentation for BM0704 COST Action MC meeting and workshop "EMFs in medical and other applications", Zurich, Switzerland, May 18, 2012
7. **Mihaela Morega**, Alexandru Morega, "*Thermal Control of Target Tissue Volume in Interstitial Hyperthermia*", Workshop under the COST Action BM1309 - Designing Focused Deep Hyperthermia by EMF, Zurich, Switzerland, June 23, 2015