

LISTA LUCRĂRILOR PUBLICATE

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A. TEZA DE DOCTORAT

„CONTRIBUȚII PRIVIND STUDIUL STIMULĂRII MAGNETICE FUNCȚIONALE A MĂDUVEI SPINĂRII”. Teză de doctorat, Universitatea Tehnică din Cluj-Napoca, Facultatea de Inginerie Electrică, Departamentul de Electrotehnică și Măsurări, Domeniul Inginerie Electrică. Data susținerii: **15.06.2012**. Comisia de evaluare a tezei de doctorat: Președinte: Prof.dr.ing. Ioan G. Târnovan – decan, Facultatea de Inginerie Electrică, Universitatea Tehnică din Cluj-Napoca, Membrii: Prof.dr.ing. Radu Vasile Ciupa - *conducător științific*, Universitatea Tehnică din Cluj-Napoca, Prof.dr.ing. Alexandru M. Morega - referent, Universitatea „Politehnica” din București, Prof.dr.ing. Mirela Toth Tașcău - referent, Universitatea „Politehnica” din Timișoara, Conf.dr.ing. Laura Dărabant – referent, Universitatea Tehnică din Cluj-Napoca, (în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului nr. 6508 din 19.12.2012).

B. CĂRȚI PUBLICATE LA EDITURI NAȚIONALE CU ISBN

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2. Andrei Ceclan, **Mihaela Crețu**, Levente Czumbil, Dan Micu, *Prosumatorul, de la consumator pasiv la utilizator activ al sistemului energetic*, UTPress, Cluj-Napoca, România, ISBN 978-606-737-848-1, 166 pagini, 2026 (editura recunoscută CNCSIS).
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5. D. Micu, L. Darabant, D. Stet, **Mihaela Crețu**, A. Ceclan, L. Czumbil, *Teoria circuitelor electrice. Probleme*, UT Press, Cluj-Napoca, România, ISBN 978-606-737-140-6, 281 pagini, ianuarie 2016 (editura recunoscută CNCSIS).

6. L. Darabant, **Mihaela Crețu**, D. Stet, *Analiza numerică a circuitelor electrice*, UT Press, Cluj-Napoca, România, ISBN 978-606-737-155-0, 154 pagini, aprilie 2016 (editura recunoscută CNCSIS).
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C. ARTICOLE PUBLICATE

I. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE DE CIRCULAȚIE INTERNAȚIONALĂ RECUNOSCUTE ȘI JURNALE ISI

REVISTE ISI

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3. **Mihaela Crețu**, L. Czumbil, B. Bârgăuan, A. Ceclan, A. Berciu, A. Polycarpou, R. Rizzo, D. D. Micu, *Modelling and evaluation of the Baseline Energy Consumption and the Key Performance Indicators in Technical University of Cluj-Napoca buildings within a Demand Response programme: a case study*, **IET Renewable Power Generation Journal (Q1)**, Vol. 15, Issue 14, pp. 2864-2875, ISSN 1752-1416, November 2020, DOI10.1049/iet-rpg.2020.0096, <https://doi.org/10.1049/iet-rpg.2020.0096>, IF: 3.93
4. **Mihaela Crețu**, A. Darabant, R. Ciupa, *Magnetic Stimulation of the Spinal Cord: Evaluating the Characteristics of an Appropriate Stimulator*, **Artificial Organs (Q2)**, vol. 39, Issue 10, pp. 841–848, ISSN 0160564X, october 2015, <https://doi.org/10.1111/aor.12617>, IF: 2.403
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3. T. Farkas, L. Czumbil, **Mihaela Crețu**, L. Darabant, D. Șteț, A. Ceclan, A. Polycarpou, D. D. Micu, *Assessment of the Romanian Pilot Site Energy Consumption Indicators and Technical Prerequisites in the Implementation of the RE-COGNITION Horizon Project*, Proceedings of the 9th International Conference on Modern Power Systems, 16 Iunie, Cluj-Napoca, Romania, ISBN 978-166543381-5, [DOI: 10.1109/MPS52805.2021.9492686](https://doi.org/10.1109/MPS52805.2021.9492686), 2021.

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II. ARTICOLE INDEXATE ÎN BAZE DE DATE INTERNAȚIONALE BDI

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III. ARTICOLE PUBLICATE ÎN VOLUMELE UNOR CONFERINȚE NE-INDEXATE INTERNAȚIONALE

1. Laura Creț, **Mihaela Pleșa**, D. D. Micu, Denisa Duma, L. Man, E. Simion - *Design Of Coils For Magnetic Stimulation*, 5th International Conference On Electromechanical And Power Systems, Octombrie 2005, Chisinau, Rep. Moldova, pg. 1041-1044, ISBN 973-716-208-0.
2. **Mihaela Pleșa**, L. Darabant, R. V. Ciupa, C. Curta, A. Racasan, *Magnetic Stimulation of Peripheral Nerves: Induced Electric Field in a Semi-Infinite Conducting Medium*, Lausanne, Elvetia, 2008, (publicat pe CD).
3. L. Darabant, **Mihaela Pleșa**, R. V. Ciupa, O. Creț, A. S. Darabant, *Energy Efficient Coils for Transcranial Magnetic Stimulation (TMS)*, EUROEM 2008, Lausanne, (publicat pe CD), Elvetia.
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 8. Claudia Răcășan, V. Țopa, Adina Răcășan, Oana Antonescu, **Mihaela Pleșa**, Modeling of On-Chip Inductance, ANCME 2005, Belgia, ISBN 10 973 -686 -798 -6, pp. 110-119;
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 10. Adina Răcășan, C. Munteanu, Claudia Răcășan, V. Țopa, Oana Antonescu, **Mihaela Pleșa**, *Interconnect Parameter Parasitics in Deep Sub-Micron Geometries*, ANCME 2005, Belgia, ISBN 10 973 -686 -798 -6, pp.170-180.
 11. **Mihaela Pleșa**, Laura Dărbant, R. V. Ciupa, Adina Răcășan, Claudia Răcășan, *Magnetic Stimulation of Peripheral Nerves in a Cylindrical Volume Conductor*, 13th Biennial IEEE Conference on Electromagnetic Field Computation CEFC 2008, 11-15 May, 2008, Atena, Grecia (publicat pe CD).
 12. Laura Dărbant, **Mihaela Pleșa**, D. D. Micu, Denisa Șteț, R. V. Ciupa, *Energy Efficient Coils for Magnetic Stimulation of Peripheral Nerves*, 13th Biennial IEEE Conference on Electromagnetic Field Computation CEFC 2008, 11-15 May, 2008, Atena, Grecia, (publicat pe CD).
 13. Adina Răcășan, C. Munteanu, V. Țopa, Claudia Răcășan, **Mihaela Pleșa**, *Electromagnetic modelling of Integrated L-C Structures for EMI Filters Implementation*, EUROEM2008 European Electromagnetics, 21-25 July 2008, Lausanne, Elveția, pp. 396-397 (publicat și pe CD).
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5. **Mihaela Pleșa**, Laura Creț, D. V. Rafiroiu, R. V. Ciupa, , E. Simion, *Numerical and analytical modeling of the subthreshold response of the membrane cell*, Buletinul Institutului Politehnic din Iași, Seria Electrotehnică. Energetică. Electronică, Fascicola 5B, Tomul LII(LVI), ISSN 1223-8139, pp. 737-742, 2006.
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7. Claudia Răcășan, V. Țopa; Adina Răcășan, C. Munteanu, Oana Antonescu, **Mihaela Pleșa**, *On-chip inductance computation using Ansoft 2D Extractor*, Buletinul Institutului Politehnic din Iasi, Seria Electrotehnică. Energetică. Electronică, Fascicola 5B, Tomul LII(LVI), ISSN 1223-8139, pp. 757-763, 2006.
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9. Laura Creț, **Mihaela Pleșa**, D. D. Micu, *Magnetic Coils for Localized Stimulation of the Central Nervous System*, Acta Electrotehnica, Special Issue, 1st International Conference on Modern Power Systems, MPS Cluj-Napoca, 8-11 noiembrie, 2006, ISSN 1841-3323, Vol. 47, No. 4, pp. 225-228.
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13. **Mihaela Pleșa**, Rodica Creț, Laura Creț, R. V. Ciupa, Claudia Răcășan, *2D Simulations for estimating the dielectric mixtures permittivity with different inclusions*, Analele Universității din Oradea, Fascicola Electrotehnica (Secțiunea Inginerie Electrică), ISSN 1223-2106, pp. 111-114, 2007.
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D. PROIECTE DE CERCETARE/DEZVOLTARE (CONTRACT/GRANT) OBTINUTE PRIN COMPETIȚIE

I. DIRECTOR DE GRANT OBTINUT PRIN COMPETIȚIE INTERNAȚIONALĂ

1. Director grant: Mihaela Crețu, HORIZON "RENplusHOMES - Renewable ENergy-based Positive Homes", HORIZON-CL5-2022-D4-01-02, No. 101103450 <https://renplushomes.eu/>
2. Director grant: Mihaela Crețu, EEA Grant, Innovation Norway, 2823/06.02.2023, SupportinG incReasEd knowlEdge oN. rENewable eneRgy and energy efficiency in Alba-Iulia (GREENER)

II. DIRECTOR DE GRANT OBTINUT PRIN COMPETIȚIE NAȚIONALĂ

1. Director grant: Mihaela Pleșa, Contract TD_283, nr. Contract 601/2007, *Contribuții privind studiul teoretic și experimental al stimulării magnetice funcționale.*
2. Director grant: Mihaela Pleșa, Contract MC, Cod CNCSIS 102/2007, *Numerical Calculus of Binary Dielectric Mixtures Permittivity with Inclusions of Different Geometrical Shapes and Sizes.*
3. Director grant: Mihaela Crețu, PN-IV-P8-8.1-PRE-HE-ORG-2023-0143, Contract 52_PHE/2024, *Clădiri pozitive energetic bazate pe surse regenerabile integrate.*

III. MEMBRU ÎN ECHIPA UNUI GRANT INTERNAȚIONAL

1. Membru grant: Mihaela Crețu, Responsabil proiect UTCN: Conf. Dr. Ing. Andrei Ceclan COREspaces – *COdesign urban REalm & dynamic Spaces management for cognitive & socially connected cities*, Horizon Europe – Grant Agreement / Project ID: 10123909.
2. Membru grant: Mihaela Crețu, Responsabil proiect UTCN: Prof.dr. ing. Nicolae Filip, HORIZON-MISS-2022-CIT-01-01/ HORIZON-IA/ Contract nr: 101104240/01.01.2024, *Mobility justice for all: framing safer, healthier and happier streets.*
3. Membru grant: Mihaela Crețu, Responsabil proiect UTCN: Prof.dr. ing. Dan D. Micu HORIZON, *EVELIXIA - Smart Grid-Efficient Interactive Buildings*, HORIZON-CL5-2022-D4-02, No. 101123238 <https://www.evelixia-project.eu/>.
4. Membru grant: Mihaela Crețu, Director: Conf. dr. ing. Andrei Ceclan EEA and Norway grants: *Design and development of an Energy Efficiency Management and Control System with cost-effective solutions for residential and educational buildings* - 332783/2021 - DOITSMARTER

5. Membru grant: Miahela Crețu, Director de grant: Prof.dr. ing. Dan D. Micu HORIZON: H2020-LC-GD-5-1-2020 - *Holistic Green Airport*, 101036871 – OLGA, 2021-2026 www.olga-project.eu.
6. Membru grant: Miahela Crețu, Responsabil proiect UTCN: : Prof.dr. ing. . Dan D. Micu H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2018-RES - *Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings*, 815301-RECOGNITION-2019-2022 <https://re-cognition-project.eu/>.
7. Membru grant: Miahela Crețu, Responsabil proiect UTCN: Prof.dr. ing. Dan D. Micu H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-EE-2018 - *A holistic framework for Empowering SME's capacity to increase their energy efficiency*, 847132-SMEmPower Efficiency-2019-2022, <https://smempower.com/>.
8. Membru grant: Mihaela Pleșa, Contract bilateral România-Austria, nr. Contract 224/2009, *Stimularea Funcțională a Măduvei Spinării*, Director: Prof. dr. ing. Radu Ciupa.
9. Membru grant: Mihaela Crețu, Contract H2020_EE_2014_CSA_64977: *Meeting the Energy Professionals Skills*, Director: Prof. dr. ing. Dan D. Micu.
10. Membru grant: Mihaela Crețu, Contract H2020, no. 696114: *Demand Response in Block of Buildings*, Director: Prof. dr. ing. Dan D. Micu.
11. Membru grant: Mihaela Crețu, Contract bilateral România-Norvegia, nr. 28.407/26.05.2017, *Enhancing the Transfer of Research and Development Methods in Energy-Related Clusters from Norway to Romania – EmPower Efficiency*, Director: Prof. dr. ing. Dan D. Micu.

IV. MEMBRU ÎN ECHIPA UNUI GRANT NAȚIONAL

1. Membru grant: Mihaela Crețu, Director proiect Prof. Dr. Ing. Vlad Burnete: *Ro-Green Sustainable Electric Mobility Solutions*, cod SMIS: 336225.
2. Membru grant: Mihaela Crețu, Director proiect: Conf. dr. ing. Andrei Ceclan, *NetZeRoCities - National Competence Centre and solutions for the development of Climate Neutral and Smart Cities*, finanțat prin Planul National de Redresare și Reziliență Apel nr. PNRR-III-C9-2022-I5, Contractul de finanțare nr. 760007 / 30.12.2022, cod 6 / 16.11.2022
3. Membru grant: Mihaela Crețu, Director: Prof. dr. ing. Dan D. Micu PREMIEREA PARTICIPARII PROIECT HORIZON 2020:SEMPOWER, Contract 42/2021, *CADRU HOLISTIC PENTRU CRESTEREA EFICIENȚEI ENERGETICE IN IMM-URI*
4. Membru grant: Mihaela Crețu, Director: Prof. dr. ing. Dan D. Micu, *Pachet intergrat de surse regenerabile pentru cladiri autonome*; PREMIEREA PARTICIPARII PROIECT HORIZON 2020:RE-COGNITION Contract 44 din 11/01/2021, PN-III-P3-3.6-H2020-2020-0121
5. Membru grant: Mihaela Crețu, Director: Prof. dr. ing. Dan D. Micu PN-IV-P8-8.1-PRE-HE-ORG-2023-0143, Contract 56_PHE/2024, *Clădiri interactive eficiente de tip SMART-GRID*.
6. Membru grant: Mihaela Pleșa, Contract PN2 Idei ID_1078, nr. Contract 342/2007, *Stimulare magnetică neuronală – cercetări privind îmbunătățirea performanțelor echipamentului electric și a eficienței clinice în diagnostic și tratament*, Director: Prof. dr. ing. Radu Ciupa.

7. Membru grant: Mihaela Pleșa, Contract PN2 Idei ID_1024, nr. Contract 344/2007, *Model matematic pentru studiul influenței poluării electromagnetice în c.a. a conductelor metalice subterane de gaz, cu și fără protecție catodică, aflate în vecinătatea unei stații de transformare*, Director: Prof. dr. ing. Emil Simion.
8. Membru grant: Mihaela Pleșa, Contract CEEX, nr. X2C37/2006, *Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor*, Director: Prof. dr. ing. Claudia Popescu.
9. Membru grant: Mihaela Pleșa, Contract CEEX, nr. 136/2006, *Diagnoză și predicție inteligentă și activă a construcțiilor cu structură de rezistență în mediul înconjurător complex poluat*, Director: Prof. dr. ing. Dorin Isoc.
10. Membru grant: Mihaela Pleșa, Contract CEEX *Cercetări teoretice și experimentale privind comportarea materialelor electroizolante în scopul fundamentării studiilor de diagnoză și predicție inteligente*, Contract nr. 264/12.09.2006, Director: Prof. dr. ing. Doina Gavrilă.
11. Membru grant: Mihaela Pleșa, Grant CNCSIS de tip A, *Influența câmpurilor electromagnetice asupra stabilității în funcționare și a performanțelor instalațiilor de ardere*, Cod CNCSIS 1279/2006, Director de grant: Prof. Dr. ing. Emil Simion.
12. Membru grant: Mihaela Pleșa, Grant CNCSIS de tip A, *Dezvoltarea de aplicații software și investigații experimentale pentru studiul fenomenului cavitațional în valvele cardiace mecanice*, Cod CNCSIS 966/2005, Director de grant: Conf. dr. ing. Dan Rafiroiu.
13. Membru grant: Mihaela Pleșa, Contract PARTENERIATE nr. 22122 din 01.10.2008, *Sistem de predicție și diagnoză inteligentă pentru prevenirea avariilor la cablurile de energie*, Director: dr. ing. Carmen Ligvay.

V. CONTRACTE CU TERȚII

1. Membru grant: Mihaela Crețu, *Protecția echipamentelor de la obiectivele DSNA Cluj și DR București Secția PNA/CNS Cluj la Supratensiuni și Impulsuri Electromagnetice cauzate de trăsnete în liniile de electroalimentare și în circuitele vocale și de date*, ROMATSA_3423/2013, Director: Prof. dr. ing. Dan D. Micu.
2. Membru grant: Mihaela Crețu, *Raport de audit energetic - evaluarea eficienței energetice*, beneficiar: UTI Grup SA, Valoare: 46.380 RON, Director: Prof. dr. ing. Dan D. Micu
3. Membru grant: Mihaela Crețu, Director: Prof.dr.ing. Călin Munteanu EE TN S.A. 2019: "Studiu privind post-calculul consumului propriu tehnologic în rețelele de distribuție a operatorului de rețea concesionar SDEE Transilvania Nord S.A pentru anul 2018", SDEE Transilvania Nord S.A.
4. Membru grant: Mihaela Crețu, Director: Prof.dr.ing. Călin Munteanu SDEE TN S.A. 2020: "Studiu privind post-calculul consumului propriu tehnologic în rețelele de distribuție a operatorului de rețea concesionar SDEE Transilvania Nord S.A pentru anul 2019", SDEE Transilvania Nord S.A.

E. BURSE/GRANTURI POSTDOCTORALE

1. Mihaela Crețu, cercetător postdoctoral în cadrul proiectului “Parteneriat interuniversitar pentru excelența în inginerie - PARTING”, POSDRU/159/1.5/S/137516 Bursa Postdoctorală: Cod Contract: POSDRU/159/1.5/S/137516, Titlul temei de cercetare: *Cercetări privind proiectarea eficientă a unui stimulator magnetic utilizat în activarea măduvei spinării*

Cluj-Napoca,
28 iulie 2026

Conf. dr.ing. Mihaela CREȚU