

**LISTĂ DE LUCRĂRI PUBLICATE ȘI CONTRACTE DE
CERCETARE.**

Asist.univ.dr.Ing. Marius Codrean.

**LISTĂ DE LUCRĂRI PUBLICATE
A1. ARTICOLE ÎN EXTENSO ÎN REVISTE COTATE WOS
THOMSON REUTERS ÎN VOLUME VOLUME PROCEEDINGS
INDEXATE WOS THOMSON – REUTERS**

Activitate publicistică concretizată prin: 19 lucrari

**A|1.]Gordan, Mircea ; Purcaru, Dorina Mioara ; Codrean, Marius;Novac, Mihaela Cornelia ; Novac, Ovidiu Constantin; Codrean, Mihaela -
Aspects Regarding the Numerical Simulation of the Inductive Heating Process, Using the FLUX2D and FEMM Software**

Conference: 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Pitesti, ROMANIA Date: JUN 27-29, 2019

Sponsor(s):IEEE; IEEE Romania Sect; IEEE Ind Applicat Soc; Univ Pitesti, Fac Elect, Commun & Comp; Guvernul Romaniei, Ministerul Educatiei Cercetarii Stiintifice

PublisherIEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA

Categories / Classification Research Areas:Computer Science; Engineering

Web of Science Categories:Computer Science, Artificial Intelligence; Computer Science, Theory & Methods; Engineering, Electrical & Electronic

Accession Number: ISBN:978-1-7281-1624-2 ISSN: 2378-7147

Document Type:Proceedings Paper

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[hAv3MxNy&page=1&doc=1&cacheurlFromRightClick=no](https://apps-whoofknowledge-com.am.e-formation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4JC9gAUXpU)

A|2.]Novae, Mihaela Cornelia; Codrean, Marius; Novac, Ovidiu Constantin; Codrean, Mihaela ; Oproescu, Mihai ; Bujdoso, Gyongyi.

The Numerical Modeling of the Inductive Heating Process at Different Frequencies, Using the FLUX 2D Software

PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI-2019)

Book Series: International Conference on Electronics Computers and Artificial Intelligence

Published: 2019 Location: Pitesti, ROMANIA

Date: JUN 27-29, 2019 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA

Research Areas:Computer Science; Engineering Web of Science Categories:Computer Science, Artificial Intelligence; Computer Science, Theory & Methods; Engineering, Electrical & Electronic ISBN:978-1-7281-1624-2 ISSN: 2378-7147

Document Type:Proceedings Paper

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[formation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4JC9gAUXpU](https://apps-whoofknowledge-com.am.e-formation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4JC9gAUXpU)
[v3MxNy&page=1&doc=2&cacheurlFromRightClick=no](https://apps-whoofknowledge-com.am.e-formation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4JC9gAUXpU)

A[3.]Covaciu, Mihaela ; Hathazi, Francisc-Ioan ; Arion, Mircea-Nicolae ;Soproni, Vasile-Darie; Molnar, Carmen Otilia ; **Codrean, Marius**

Decontamination, Drying and Sterilization Assisted by the High Frequency Electromagnetic Field For The Processing of Construction Waste Used on Driveways

2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Pages: 89-92 Published: **2019**

Conference: 15th International Conference on Engineering of Modern Electric Systems (EMES) Location: Oradea, ROMANIA Date: JUN 13-14, 2019 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA Research Areas:Energy & Fuels; Engineering Web of Science Categories:Energy & Fuels; Engineering, Electrical & ElectronicISBN:978-1-7281-0773-8

Document Type:Proceedings Paper

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A[4.] Soproni, Vasile Darie; Molnar, Carmen Otilia ; Hathazi, Francisc Ioan; Arion, Mircea Nicolae ; **Codrean, Marius** ; Moldovan, Liviu.

Experimental Research on Microwave Field and Hot Air Drying of Barley Seeds

2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Pages: 113-116 Published: **2019**

Conference: 15th International Conference on Engineering of Modern Electric Systems (EMES) Location: Oradea, ROMANIA Date: JUN 13-14, 2019 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA Research Areas:Energy & Fuels; Engineering Web of Science Categories:Energy & Fuels; Engineering, Electrical & Electronic ISBN:978-1-7281-0773-8

Document Type:Proceedings Paper

WOS:000503434500029

<https://apps-whoofknowledge-com.am.e->

[nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHa v3MxNy&page=1&doc=4&cacheurlFromRightClick=no](https://apps-whoofknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHa v3MxNy&page=1&doc=4&cacheurlFromRightClick=no)

A[5.] Leuca, Teodor ; Coman, Simina ;Trip, Nistor Daniel; Bandici, Livia; **Codrean, Marius** ;Perte, Marcel. Neural Network Modeling of a Drying Process in Radio Frequency Field

2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) IEEE Pages: 193-196 Published: **2019**

Conference: 15th International Conference on Engineering of Modern Electric Systems (EMES) Location: Oradea, ROMANIA Date: JUN 13-14, 2019 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA Research Areas:Energy & Fuels; Engineering Web of Science Categories:Energy & Fuels; Engineering, Electrical & Electronic ISBN:978-1-7281-0773-8

Document Type:Proceedings Paper

WOS:000503434500049

<https://apps-whoofknowledge-com.am.e->

[nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHa v3MxNy&page=1&doc=5&cacheurlFromRightClick=no](https://apps-whoofknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHa v3MxNy&page=1&doc=5&cacheurlFromRightClick=no)

A[6.] Codrean, Mihaela; **Codrean, Marius**; Novac, Mihaela Cornelia ; Novac, Ovidiu-Constantin ; Gordan, Cornelia ; Farcas, Valentin Ioan

Analyzing the Process of Tempering a Semifinished Product Using the FLUX2D and FEMM Software
2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) :IEEEPages: 229-232 Published: **2019**

Conference: 15th International Conference on Engineering of Modern Electric Systems (EMES) Location: Oradea, ROMANIA Date: JUN 13-14, 2019 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA
Research Areas:Energy & Fuels; Engineering Web of Science Categories:Energy & Fuels; Engineering, Electrical & ElectronicISBN:978-1-7281-0773-8

Document Type:Proceedings Paper

WOS:000503434500058

<https://apps- webofknowledge-com.am.e->

[nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=6&cacheurlFromRightClick=no](https://apps- webofknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=6&cacheurlFromRightClick=no)

A[7.] **Codrean, Marius**; Novac, Mihaela Cornelia ; Novac, Ovidiu Constantin; Codrean, Mihaela.

Considerations on the Numerical Modeling of the Induction Heating Process Using the Elta and Flux 2D Software

PROCEEDINGS OF THE 2018 10TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) IEEEBook Series: International Conference on Electronics Computers and Artificial Intelligence Published: **2018** Conference: 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Iasi, ROMANIA Date: JUN 28-30, 2018 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA Research Areas:Computer Science Web of Science Categories:Computer Science, Artificial Intelligence ISBN:978-1-5386-4901-5 ISSN: 2378-7147

Document Type:Proceedings Paper

WOS:000467734100149

<https://apps- webofknowledge-com.am.e->

[nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=7&cacheurlFromRightClick=no](https://apps- webofknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=7&cacheurlFromRightClick=no)

A[8.] Novac, Mihaela Cornelia;**Codrean, Marius** ; Novac, Ovidiu Constantin;Gordan, Cornelia ; Codrean, Mihaela.

Current Aspects and Trends in the Numerical Modeling of Induction Heating Equipments

PROCEEDINGS OF THE 2018 10TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) IEEE Book Series: International Conference on Electronics Computers and Artificial Intelligence Published: **2018** Conference: 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Iasi, ROMANIA Date: JUN 28-30, 2018 Research Areas:Computer ScienceWeb of Science Categories:Computer Science, Artificial Intelligence ISBN:978-1-5386-4901-5 ISSN: 2378-7147

Document Type:Proceedings Paper

WOS:000467734100116

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[nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=8&cacheurlFromRightClick=no](https://apps- webofknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=8&cacheurlFromRightClick=no)

A|9. |Maricar, Mihai ; **Codrean, Marius** ; Leuca, Teodor ; Bandici, Livia; Vasilescu, George Marian.
THERMAL TREATMENT OF FERROMAGNETIC BARS

View Web of Science ResearcherID and ORCIDREVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE Volume: 62 Issue: 3 Pages: 225-228 Published: JUL-SEP 2017 EDITURA ACAD ROMANE, CALEA 13 SEPTEMBRIE NR 13, SECTOR 5, BUCURESTI 050711, ROMANIA Journal Information Impact Factor: Journal Citation Reports Research Areas:Engineering Web of Science Categories:Engineering, Electrical & Electronic ISSN: 0035-4066 IDS Number: FL8NR

Document Type:Article

WOS:000414507000001

https://apps-whoofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=9&cacheurlFromRightClick=no

A|10. | Leuca, Teodor ; Maricar, Mihai ; Hantila, Ioan Florea ;**Codrean Marius**; Bandici, Livia ; Burca, Adrian

Heating of Nonlinear Ferromagnetic Bars

2017 14TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Book Group Author(s):IEEEPages: 109-112 Published: 2017 Conference: 14th International Conference on Engineering of Modern Electric Systems (EMES) Location: ORADEA, ROMANIA Date: JUN 01-02, 2017 IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA Research Areas:Energy & Fuels; Engineering Web of Science Categories:Energy & Fuels; Engineering, Electrical & Electronic ISBN:978-1-5090-6073-3

Document Type:Proceedings Paper

WOS:000427085200026

https://apps-whoofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C4JC9gAUXpUHA v3MxNy&page=1&doc=10&cacheurlFromRightClick=no

A|11. | Mircea – Nicolae Arion, Francisc – Ioan Hathazi, Otilia Molnar Carmen, Darie Soproni Vasile, **Marius Codrean** – About the extraction in microwave field of the essential oils and beta-carotene from carrots, 2017 14TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES), Pages: 75-78, Published: 2017, JUN 01-02, 2017, ORADEA, ROMANIA, ISBN:978-1-5090-6073-3

Document Type:Proceedings Paper

WOS:000427085200018

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**B.1.ARTICOLE IN REVISTE SI VOLUMELE UNOR MANIFESTARI
STIINTIFICE INDEXATE IN ALTE BAZE DE DATE INTERNATIONALE (BDI)**

B[1] Telea, D. Vicaș Coman, S., Bandici, L., **Codrean, M.**, Leuca, T.
Aspects concerning the process of induction heating using design of experiments (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 12, Issue 1, May 2019, Pages 61-66
Document Type: JOURNAL Paper

<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85070328545&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=6&citeCnt=0&searchTerm=>

B[2] **Codrean, Marius.**, Coman, Simina., Popa, Monica., Codrean, Mihaela.
Optimizing the process of inductive heating in volume using numerical simulations (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 10, Issue 2, October 2017, Pages 19-24
Document Type: JOURNAL Paper

<https://www-scopus-com.am.e-nformation.ro/record/display.uri?cid=2-s2.0-85038407378&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=9&citeCnt=0&searchTerm=>

B[3] **Codrean, Marius.**, Nagy, Ștefan., Bandici, Livia., Gordan, Mircea.
Modeling and simulating the process of superficial heat treatment, by induction (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 9, Issue 2, October 2016, Pages 15-18
Document Type: JOURNAL Paper

<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84999026123&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=13&citeCnt=0&searchTerm=>

B[4] **Codrean, M.**, Coman, S., Popa, M., Gordan, M., Giurgiu, N.C.^a
Numerical analysis of the induction heating in volume of a half-finished product, neglecting the end effect (Article)

Journal of Electrical and Electronics Engineering Open Access Volume 9, Issue 2, October 2016, Pages 11-14
Document Type: JOURNAL Paper

<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84998775116&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=14&citeCnt=2&searchTerm=>

B|5| Codrean, M, Coman Simina, Popa, M., Leuca, T, Giurgiu, N.C
Modelling the process of induction heating in volume of a bar strip using flux 2D software, coupled with minitab experimental design software (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 9, Issue 1, May 2016, Pages 5-8
Document Type: JOURNAL Paper
<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84975131404&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=15&citeCnt=4&searchTerm=>

B|6| Leuca, T., Novac, M., Stanciu, B., Burcă, A., Codrean, M
Using minitab-box benken software to optimize the induction heating process (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 7, Issue 1, May 2014, Pages 73-76
Document Type: JOURNAL Paper
<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84903195354&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=16&citeCnt=1&searchTerm=>

B|7| Leuca, T., Novac, M., Stanciu, B., Burcă, A., Codrean, M.^a
Using some coupled numerical models in problems of designing an inductive electrothermal equipment (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 7, Issue 1, May 2014, Pages 77-80
Document Type: JOURNAL Paper
<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84903187699&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=17&citeCnt=4&searchTerm=>

B|8| Neamțu, O., Roșca, M, Bendea, C., Codrean, M.
Ground source heat pump in heating system with electronics monitoring (Article)
Journal of Electrical and Electronics Engineering Open Access Volume 6, Issue 2, October 2013, Pages 21-24
Document Type: JOURNAL Paper
<https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84888079569&origin=resultslist&sort=plf-f&src=s&st1=Codrean&st2=Marius&nlo=1&nlr=20&nls=count-f&sid=236217f69396c571be60273176765898&sot=anl&sdt=aut&sl=36&s=AU-ID%28%22Codrean%2c+Marius%22+55936040200%29&relpos=18&citeCnt=1&searchTerm=>

CONTRACTE DE CERCETARE

1. Contract Nr.3350/11.05.1998: Stabilirea consumatorilor alimentați din rețeaua S.D. Oradea care provoacă regim deformant și nesimetric, a gradului de poluare al rețelei și a pierderilor suplimentare de energie provocate prof.dr.ing. I. Felea-responsabil de proiect, ș.l.ing. D.C.Secui, ș.l.ing. E. Dale, ș.l.ing. G. Bendea, ș.l.ing. M. Cîmpan, as.ing. D. Dragoș, **ing. M.Codrean** S.D. Oradea.
2. Contract Nr. 3/07.07.2000 Măsurători ale câmpului electromagnetic în stații și vecinătăți. prof.dr.ing. I. Felea-responsabil de proiect, conf.dr.ing. L.Goia, , ș.l.ing. G. Bendea, ș.l.ing. D.C. Secui, ș.l.ing. M. Cîmpan, **ing. M.Codrean** S.D. Oradea
3. ContractNr. 2/19.03.2001: Studiu privind performanțele de disponibilitate ale rețelei de distribuție a energiei electrice din cadrul municipiului Oradea. prof.dr.ing. I. Felea-responsabil de proiect, conf.dr.ing. M. Cîrlan, ș.l.ing.D.C. Secui, **ing. M. Codrean** S.D. Oradea
4. Contract:Nr. 4/06.06.2002 : Studiu privind diagnoza transformatoarelor de putere din stațiile electrice de transformare prof.dr.ing. I. Felea-director de proiect, ș.l.dr.ing. G. Bendea, ș.l.ing. D.C.Secui, ș.l.ing. D. Meianu, ș.l.ing. M. Cîmpan, ș.l.ing. N. Rancov, ing. V. Haș,ing. E. Barla, **ing. M. Codrean** SDFEE Oradea
5. Contract Nr. 3/13.03.2003: Consultanța în vederea elaborării și aplicării Programului de Asigurare a Mentenanței (PAM) prin prisma regulamentului ANRE la Sucursala Electrocentrale Deva. prof.dr.ing. I. Felea, conf.dr.ing. G. Bendea, ș.l.ing. D.C. Secui, ș.l.ing. Goia Horia, prep.ing. Lolea M., **cerc.ing. Codrean M.**, cerc.ing. Barla E Sucursala Electrocentrale Deva, cu Sediul-Mintia.
6. Contract Nr. 3/09.07.2003: Diagnoza stării tehnice a întrerupătoarelor de ÎT și MT prof.dr.ing. I. Felea-director de proiect, conf.dr.ing. G. Bendea, ș.l.ing. Meianu D., ș.l.ing. D.C. Secui, ș.l.ing. Haș V.,**cerc.ing. Codrean M.** SDFEE Oradea
7. Diagnosticarea OFF-LINE a stării tehnice a unui întreruptor cu SF6 tip H14 și un întreruptor cu ulei tip IO 110 kV, în vederea stabilirii stării tehnice. prof.dr.ing. I. Felea-director de proiect, conf.dr.ing. G. Bendea, ș.l.ing. D.C. Secui,**cerc.ing. Codrean M.** ICEMENERG SUCURSALA CRAIOVA.
8. Student post Doctorat **CODREAN Marius**, SmartDoct -Programe de înaltă calitate pentru doctoranzii și cer-cetătorii postdoctorat ai Universității din Oradea pentru creșterea relevanței cercetăriiși inovăriiîn contextul economiei regionale, Perioada de implementare a proiectului:**19.06.2019 -18.12.2021** (30 luni)**Codul proiectului: 123008**

Data: 27.01.2021.

Asist.univ.dr.ing. **Marius CODREAN.**