

LISTA DE LUCRĂRI

Ș.I. dr. ing. STAȘAC Claudia Olimpia

conform art, 13 din metodologia proprie privind organizarea și desfășurarea examenului de promovare în cariera didactică a Universității din Oradea

Art. 13. - Dosarul de concurs conține lucrările, articolele/studiile, publicaliile realizate de candidat, relevante în domeniul disciplinelor postului, iar lista acestora va fi structurată astfel:

- a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru domeniul disciplinelor postului pentru care candidează;
- b) teza sau tezele de doctorat;
- c) brevete de invenție și alte titluri de proprietate industrială;
- d) cărți și capitole în cărți;
- e) articole/studii în extenso, publicate în reviste din fluxul științific internațional principal;
- f) publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;
- g) alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice.

a. lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru domeniul disciplinelor postului pentru care candidează;

Lista celor 10 lucrări relevante:

1. **Claudia-Olimpia Stasac**, Andrei-Dan Tomșe, Traian Octavian Costea, Livia Bandici, Mircea Nicolae Arion, Francisc-Ioan Hathazi, *Accelerated Aging Process of Carbon Black-Reinforced PVC (CB-PVC) Insulation by UVB-Induced Chemical Degradation*, Processes 2025, 13(6), **WOS:001514931700001**
Document type: JOURNAL Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:001514931700001>
2. **Claudia-Olimpia Stasac**, Andrei-Dan Tomșe, Traian Octavian Costea, Vlad-Andrei Moldovan, Livia Bandici, Mircea-Nicolae Arion, Francisc-Ioan Hathazi, *Analysis of the Corrosive Process Originating from Electrical Arcs on Ag–Ni Contacts Based on Residual Layer Distribution*, Processes, (2025), 13(9); **WOS:001579954400001**;
Document type: JOURNAL Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:001579954400001>

3. **Stasac, CO** ; Tomse, AD ; Arion, MN ; Bandici, L ; Hathazi, FI , *Effect of Heat-Treatment Process on Magnetic Characteristics of Grain-Oriented Electrical Steel*, Processes, (2024), 12(9),
WOS: 001323080200001;
Document type: JOURNAL Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:001323080200001>

4. Tomse, M.-T., **Stasac, Claudia Olimpia.**, Tomse A-D., *Detection and Monitoring System of Disturbances in Electrical Networks*, 17th International Conference on Engineering of Modern Electric Systems (EMES), 09-10 June 2023, DOI 10.1109/EMES58375.2023.10171655, ISBN: 979-835031063-4;
Document type: Proceedings Paper
<https://ieeexplore.ieee.org/document/10171655>
<https://www.scopus.com/pages/publications/85166331571?origin=resultslist>
 slist

5. Tomse, M.-T., **Stasac, Claudia Olimpia.**, Tepelea, L., (2023), *System with AFDD for Electric Arc Study with Analysis in Lab View* 17th International Conference on Engineering of Modern Electric Systems (EMES), 09-10 June 2023, DOI 10.1109/EMES58375.2023.10171700, ISBN: 979-835031063-4,
Document type: Proceedings Paper
<https://www.scopus.com/pages/publications/85166361062?origin=resultslist>

6. **Claudia Olimpia, Stasac;** Dorel Anton Hoble, *Comparative Analysis of the Influence of Striction Resistance and Disturbing Pellicles on the Contact Resistance*, 16th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, România, 10-11 June, 2021, Page186-189, ISBN 978-1-6654-4995-3
WOS:000855847300047;
Document type: Proceedings Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:000855847300047>

7. **Stasac Claudia Olimpia;** Dorel Anton Hoble, Costea Traian; Liviu Moldovan, *Analysis of Contact Resistance Variation in Electric Devices Under Electric Charge* 15th International Conference on Engineering of Modern Electric Systems (EMES), (2019), Pages: 225-228, ISBN:978-1-7281-0773-8
WOS: 000503434500057,
Document type: Proceedings Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:000503434500057>

8. Dorel Anton Hoble, **Claudia Olimpia Stasac**, Tibor Fodor, Istvan Veber, *The correlation between the acceleration and contact resistance to a relay in vibratorion moving*, Nonconventional Technologies Review/Revista de Tehnologii Neconventionale, Vol. 22, Nr. 2 / 2018, ISSN 2359-8646; On-line: ISSN 2359-8654;
Document type: JOURNAL Paper
<http://www.revtn.ro/no2-2018.html>;
<https://search-proquest-com.am.e-information.ro/central/results/D82831364D7E4755PQ/1?accountid=136549>

9. **Claudia-Olimpia Stasac**; Mircea-Nicolae Arion, Modeling of the Inductive Heating Process of a Cylindrical Part at Two Different Frequencies, in Order to Optimize a Process of Joining an Assembly of Parts Made of Different Materials, International Symposium on Fundamentals of Electrical Engineering (ISFEE) 202316-18 November 2023 Bucharest, Romania IEEE Xplore: 21 August 2024, ISBN: 979-8-3503-0857-0979-8-3503-0856-3, ISSN:2836-1687, <https://www.webofscience.com/wos/woscc/full-record/WOS:001324614500039>
10. D.A.Hoble, **C.O.Stasac**, *Study on the influence of vibrations on electrical contact resistance*, Engineering of Modern Electric Systems (EMES), 2015, Pages:1- 4, ISBN:978-1-4799-7649-2, **WOS:000363815100029**;
Document type: Proceedings Paper
<https://1710qc030-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000363815100029>

b) teza sau tezele de doctorat;

1. Titlul tezei de doctorat: **„Contribuții privind modelarea numerică a câmpului electromagnetic în instalațiile de încălzire prin inducție”.**

Conducător științific: Prof. univ. dr. ing. Teodor Leuca;

Domeniul fundamental: Științe ingineresti;

Domeniul de doctorat: Inginerie electrică;

Instituția organizatoare de doctorat: Universitatea din Oradea;

Anul susținerii: 2008;

Ordinul Ministrului Educației și Cercetării, Nr. 5837/04.11.2008;

Țara: România, Localitatea: Oradea

c) brevete de invenție și alte titluri de proprietate industrială;

d) cărți și capitole în cărți;

1. **Claudia Olimpia Stașac**, Andrei Dan Tomșe, (2025), *Aplicații privind Calitatea Energiei Electrice*, Editura Universității din Oradea, ISBN 978-606-10-2453-7,130 pagini;
2. **Claudia Olimpia STASAC**, (2025), *Aplicații în studiul echipamentelor electrice*, Editura Universității din Oradea, ISBN 978-606-10-2398-1, 137 pagini;
3. **Claudia Olimpia STASAC**, Dorel Anton Hoble, (2022), *Echipamente electrice. Noțiuni fundamentale și aplicative*, Editura Universității din Oradea, ISBN 978-606-10-2199-4. 199 pagini;
4. **Claudia Olimpia STASAC**, Dorel Anton Hoble, (2020), *Materiale pentru electrotehnică și electronică*, Editura Universității din Oradea, ISBN 978-606-10-2092-8. 258 pagini;
5. **Stașac Claudia Olimpia**, (2010), *Tehnologia îmbinărilor nedemontabile, utilizând metode inductive*, Editura Universității Oradea, ISBN 978-606-10-0338-9, 161 pagini;

6. D. Hoble, Livia Bandici, **Claudia STASAC**, (2006), *Studii aplicative în tehnologii electrice*, Editura Treira, Oradea, ISBN(10) 973-8159-2; ISBN (13) 978-973-8159-79-2, 115 pagini;
7. D. Hoble, **Claudia STASAC**, (2004), *Aparate și echipamente electrice*, Editura Universității din Oradea, Oradea, ISBN 973-613-545-4, 200 pagini;

e) articole/studii în extenso, publicate în reviste din fluxul științific internațional principal;

Reviste indexate WOS

1. **Claudia-Olimpia Stasac**, Andrei-Dan Tomșe, Traian Octavian Costea, Livia Bandici, Mircea Nicolae Arion, Francisc-Ioan Hathazi, *Accelerated Aging Process of Carbon Black-Reinforced PVC (CB-PVC) Insulation by UVB-Induced Chemical Degradation*, Processes 2025, 13(6),
WOS:001514931700001
Document type: JOURNAL Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:001514931700001>
2. **Claudia-Olimpia Stasac**, Andrei-Dan Tomșe, Traian Octavian Costea, Vlad-Andrei Moldovan, Livia Bandici, Mircea-Nicolae Arion, Francisc-Ioan Hathazi, *Analysis of the Corrosive Process Originating from Electrical Arcs on Ag–Ni Contacts Based on Residual Layer Distribution*, Processes, (2025), 13(9);
WOS:001579954400001;
Document type: JOURNAL Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:001579954400001>
3. **Stasac, CO** ; Tomse, AD ; Arion, MN ; Bandici, L ; Hathazi, FI, , *Effect of Heat-Treatment Process on Magnetic Characteristics of Grain-Oriented Electrical Steel Processes*, (2024), 12(9),
WOS: 001323080200001;
Document type: JOURNAL Paper
<https://www.webofscience.com/wos/woscc/full-record/WOS:001323080200001>

Reviste indexate BDI

4. Stasac Claudia Olimpia , Tomșe Andrei-Dan, *Analysis of Electric Field Distribution and Dielectric Breakdown in Transformer Oil under High Voltage Stress*, JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, Vol. 19, no. 1, May 2026, ISSN: 1844-6035, p. 63- 66
Document type: Journal Paper
https://electroinf.uoradea.ro/images/articles/CERCETARE/Reviste/JEEE/JEEE_V19_N1_MAY_2026/11%20paper%202604091%20STASAC.pdf
5. Tomse Andrei Dan; **Stasac Claudia Olimpia**, Molnar Carmen, *ESP32 Based Detection and Monitoring System of Power Quality in Electrical Networks* Journal of Electrical and Electronics Engineering (JEEE) 2nd issue: Vol. 17 No. 2, 2024, ISSN: 18446035, p. 59-62,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/85213334105?origin=resultslist>

6. Dorel Anton Hoble, **Claudia Olimpia Stasac**, Tibor Fodor, Istvan Veber, *The correlation between the acceleration and contact resistance to a relay in vibratorion moving*, Nonconventional Technologies Review/Revista de Tehnologii Neconventionale, Vol. 22, Nr. 2 / 2018, ISSN 2359-8646; On-line: ISSN 2359-8654;
Document type: JOURNAL Paper
<https://www.revtn.ro/index.php/revtn/article/view/60>
7. DA Hoble, **CO Stasac**, *Increasing the energy efficiency inductors for inductive heating by adopting modern construction solutions and materials*, Nonconventional Technologies Review/Revista de Tehnologii Neconventionale, Vol. 20, Nr. 1 / 2016,
Document type: JOURNAL Paper
<https://www.revtn.ro/index.php/revtn/article/view/87>
8. **Claudia Olimpia Stasac**, Dorel Anton Hoble, *Testing the electric equipments subject to vibrations and analysis of the temperature upon the electric relay*, Nonconventional Technologies Review, Volume 19, Issue 3, pp. 55-59, 2015, ISSN 2359-8646,
Document type: JOURNAL Paper
<https://www.revtn.ro/index.php/revtn/article/view/155>
9. **C.O.Stasac**, D.A.Hoble, (2014), *The study of the inductive heating process of a cyllindrical structure made of steel-steel at the frequency of 2500hz*, Nonconventional Technologies Review / Revista de Tehnologii Neconventionale, Volume 18, Issue 1, pp. 56-60, ISSN 2359-86464,
Document type: JOURNAL Paper
https://openurl.ebsco.com/EPDB%3Agcd%3A1%3A12579841/detailv2?sid=ebsco%3Aplink%3Ascholar&id=ebsco%3Agcd%3A100601940&crl=c&link_origin=scholar.google.com
10. **STASAC, Claudia Olimpia**, (2013), *Study on the distribution of the magnetic and thermic field in cylindricalcomponent parts at various frequencies*, Nonconventional Technologies Review / Revista de Tehnologii Neconventionale, Vol 17, Issue 1, p 34, ISSN 2359-8646,
Document type: JOURNAL Paper
https://openurl.ebsco.com/EPDB%3Agcd%3A10%3A12579770/detailv2?sid=ebsco%3Aplink%3Ascholar&id=ebsco%3Agcd%3A100596912&crl=c&link_origin=scholar.google.com
11. **Stasac Claudia Olimpia**, Dorel Anton Hoble, *Analysis of inductive heating and current density in cylindrical pieces submitted cleating process at a frequency of 1500Hz*, Journal of Electrical and Electronics Engineering, Editura Universitatii din Oradea ISSN:1844-6035E-ISSN:2067-2128, Volumul 5, Issue 1, 2012, pp. 237–240,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/84866256023?origin=resultslist>
12. Hoble, D.A., **Stasac, C.O.**, *The distribution of the magnetic field in complex cylindrical spare parts at the frequency of 1000 Hz*, Journal of Electrical and Electronics Engineering Open source preview, 2011, Volumul 4, Issue 1,2011, pp. 71–74,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/79959691275?origin=resultslist>

13. **Stasac, C.O.** Hoble, D.A., *Modeling and simulation of the inductive heating process of the cylindrical bimetallic structures at a frequency of 50 Hz*, Journal of Electrical and Electronics Engineering Open source preview, 2011, Volumul 4, Issue1, 2011, pp. 223–226,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/79959701903?origin=resultslist>
14. **C.O.Stasac**, D.A.Hoble, *Modeling of the Inductive Heating Process of a Cylinder Structure made up of Two Different Materials at a 2000Hz Frequency*, Journal of Electrical and Electronics Engineering, Editura Universității din Oradea, 2010, ISSN 20672128, Volume 3, Issue 2, pp. 199-202,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/84904310474?origin=resultslist>
15. **C.O.Stasac**, D.A.Hoble, *The magnetic field distribution in cylindrical complex parts study*, Journal of Electrical and Electronics Engineering, Editura Universității din Oradea, ISSN 20672128, Volume 3, Issue 1, 2010, Pp. 209-212,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/78650427846?origin=resultslist>
16. D.A.Hoble, **C.O.Stasac**,, *The Experimental Study of the Inductive Heating Process by the cleating Method*, Journal of Electrical and Electronics Engineering, Editura Universității din Oradea, 2009, ISSN 20672128, Volume 2, Issue 1, pp. 60-63,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/79959316223?origin=resultslist>
17. **C.O.Stasac**, D.A.Hoble, *Numerical Modeling and the Technological Process of cleating at a Frequency of 500 Hz*, Journal of Electrical and Electronics Engineering, Editura Universității din Oradea, 2009, ISSN 20672128, Volume 2, Issue 2, pp. 99-102,
Document type: JOURNAL Paper
<https://www.scopus.com/pages/publications/80855124224?origin=resultslist>
18. D.A.Hoble, C.O.Stasac, (2009), *Inductive tehnology use in shape recogniying of a ferromagnetic piece*, Revista de tehnologii neconvenționale, Editura "Politehnica" Publishing House, ICNcT nr. 4/2009, ISSN 1454-3087, pp. 52-56
Document type: Revista
ISSN 1454-3087
https://drive.google.com/file/d/1HCPYefT_WOR8eeTJGdoW6DzDp_Pyql2q/view?usp=drive_link
19. C.O.Stasac, D.A.Hoble, (2009), *The analysis of the electromagnetic field in rectangular metallic structure*, Revista de tehnologii neconvenționale, Editura "Politehnica" Publishing House, ICNcT nr.3/2009, ISSN 1454-3087, pp. 72-75
Document type: Revista
https://drive.google.com/file/d/18IAUTwZ-LgD_6SBtiWgii0IqWoST5AbJ/view?usp=drive_link
20. Hoble, D.A., **Stașac, C.**, *The numerical modeling of a shape recognizing of a ferromagnetic piece*, Journal of Electrical and Electronics Engineering Open source preview, ISSN 20672128, Volue 1, Issue 1, 2008, pp. 70–73,
Document type: JOURNAL Paper

<https://www.scopus.com/pages/publications/79956267520?origin=resultslist>

21. D.A.Hoble, **C.O.Stasac**, *The study of functional parameter of the electric coal brushes*, Journal of Electrical and Electronics Engineering Open source preview, Volume 1, Issue 1, Editura Universității din Oradea, ISSN 20672128, 2008, pp. 74–76,

Document type: JOURNAL Paper

<https://www.scopus.com/pages/publications/78650425876?origin=resultslist>

22. Claudia-Olimpia Stasac, Dorel-Anton Hoble, (2011), The study of the repertition of the electromagnetic field in complex metallic structures, Revista de Tehnologii Neconventionale; Sibiu Vol. 15, Iss. 2, pp. 69-72,

Document type: JOURNAL Paper

<https://www.proquest.com/openview/2619a36dc845e505cc3be6f29dec2ced/1?pq-origsite=gscholar&cbl=366251>

23. D.A Hoble, C. Stașac, (2011), Modern technologies of increasing the electromagnetic conversion efficiency at inductive heating systems, Revista de Tehnologii Neconventionale; Sibiu, Vol. 15, Iss. 2, pp.10-14,

Document type: JOURNAL Paper

<https://www.proquest.com/openview/788ea879048da5b655f46e17d8dce929/1?pq-origsite=gscholar&cbl=366251>

24. **C.O.Stasac**, D.A.Hoble, *Modelling of the electromagnetic field in bimetallic components*, Journal of Electrical and Electronics Engineering Open source preview, Editura Universității din Oradea, ISSN 20672128, Volume 1, Issue 1, 2008, pp. 134–136,

Document type: JOURNAL Paper

<https://www.scopus.com/pages/publications/78650453010?origin=resultslist>

25. **Stașac**, C.O., Hoble, D.A., *The study of modelling inductive heating utilization the joining technique of fretaj*, Journal of Electrical and Electronics Engineering Open source preview, Volume 1, Issue 1, Editura Universității din Oradea, ISSN 20672128, 2008, pp. 137–139,

Document type: JOURNAL Paper

<https://www.scopus.com/pages/publications/78650425876?origin=resultslist>

26. Hoble, D.A., **Stasac**, C., Bandici, L., *Study about material defaults, using inductive method*, Proceedings Book 11th International Conference on Microwave and High Frequency Heating Ampere, Open source preview, 2007, pp. 147–150, ISBN 978-973759333-7,

Document type: JOURNAL Paper

<https://www.scopus.com/pages/publications/79956281725?origin=resultslist>

f) publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;

Conferințe indexate WOS

1. **Claudia-Olimpia Stasac**; Mircea-Nicolae Arion, *Modeling of the Inductive Heating Process of a Cylindrical Part at Two Different Frequencies, in Order to Optimize a Process of Joining an Assembly of Parts Made of Different Materials*, International Symposium on Fundamentals of Electrical Engineering (ISFEE) 202316-18 November 2023 Bucharest, Romania IEEE Xplore: 21 August 2024, ISBN: 979-8-3503-0857-0979-8-3503-0856-3, ISSN: 2836-1687,

WOS:001324614500039;

Document type: JOURNAL Paper

<https://ieeexplore.ieee.org/document/10637172>

<https://www.webofscience.com/wos/woscc/full-record//WOS:001324614500039>

2. **Claudia Olimpia, Stasac;** Dorel Anton Hoble, *Comparative Analysis of the Influence of Striction Resistance and Disturbing Pellicles on the Contact Resistance*, 16th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, România, 10-11 June, 2021, Page186-189, ISBN 978-1-6654-4995-3

WOS:000855847300047;

Document type: Proceedings Paper

<https://ieeexplore.ieee.org/xpl/conhome/9484097/proceeding>

<https://www.webofscience.com/wos/woscc/full-record//WOS:000855847300047>

3. **Stasac Claudia Olimpia;** Dorel Anton Hoble, Costea Traian; Liviu Moldovan, *Analysis of Contact Resistance Variation in Electric Devices Under Electric Charge* 15th International Conference on Engineering of Modern Electric Systems (EMES), (2019), Pages: 225-228, ISBN:978-1-7281-0773-8

WOS: 000503434500057,

Document type: Proceedings Paper

<https://ieeexplore.ieee.org/abstract/document/8795196>

<https://www.webofscience.com/wos/woscc/full-record//WOS:000503434500057>

4. **D.A.Hoble, C.O.Stasac,** *Study of the thermic effects in the electric contacts subject to the vibratory movements*, Engineering of Modern Electric Systems 14th International Conference on Engineering of Modern Electric Systems (EMES), (2017), Page23-28, ISBN: 978-1-4799-7649-2,

WOS:000427085200006;

Document type: Proceedings Paper

<http://ieeexplore.ieee.org/document/7980373/>

<https://www.webofscience.com/wos/woscc/full-record//WOS:000427085200006>

5. **D.A.Hoble, C.O.Stasac,** *Study on the influence of vibrations on electrical contact resistance*, Engineering of Modern Electric Systems (EMES), 2015, Pages:1- 4, ISBN:978-1-4799-7649-2,

WOS:000363815100029;

Document type: Proceedings Paper

<https://ieeexplore.ieee.org/document/7158416>

<https://www.webofscience.com/wos/woscc/full-record//WOS:000363815100029>

Conferințe indexate BDI

6. **Tomse, M.-T., Stasac, Claudia Olimpia., Tomse A-D.,** (2023), *Detection and Monitoring System of Disturbances in Electrical Networks* 17th International Conference on Engineering of Modern Electric Systems (EMES), 09-10 June 2023, DOI 10.1109/EMES58375.2023.10171655, ISBN: 979-835031063-4;

Document type: Proceedings Paper

<https://www.scopus.com/pages/publications/85166331571?origin=resultslist>

7. Tomse, M.-T., **Stasac, Claudia Olimpia.**, Tepelea, L., (2023), *System with AFDD for Electric Arc Study with Analysis in Lab View* 17th International Conference on Engineering of Modern Electric Systems (EMES), 09-10 June 2023, DOI 10.1109/EMES58375.2023.10171700, ISBN: 979-835031063-4,
Document type: Proceedings Paper
<https://www.scopus.com/pages/publications/85166361062?origin=resultslist>
8. D.A.Hoble, **C.O.Stasac**, Bandici L., Molnar C. O., (2011), *Modeling inductive heating process of a cylindrical structure made of two different materials at a Frequency of 1000 Hz*, Annals of DAAAM and Proceeding of the international DAAAM Symposium, pp 1185-1189; ISSN: 17269679, ISBN: 978-390150983-4,
Document type: Proceeding Paper
<https://www.scopus.com/pages/publications/84904310474?origin=resultslist>

Data:
15.07.2026

Semnătura: