

**LISTA DE LUCRARI****CARTI DE SPECIALITATE**

Nr. Crt.	Autori	Titlu	Editura	ISBN
1	Rodica CRET, Laura DARABANT, A.C. TURCU	Dielectrici si Materiale Magnetice	Mediamira	978-973-713-204-8
2	Antoniu TURCU	Compensare-Simetrizare-Topire: Criterii de optim	Mediamira	978-973-713-364-9

**INFRUMATOR DE LABORATOR**

Nr.	Autori	Laborator/aplicații	Editura	Dovada
1	Rodica CRET, Micu, R., Turcu, A.C., Moraar, M	Materiale electrotehnice. Îndrumător de laborator,	UT Press	ISBN 973-662-216-9
2	Rodica CRET, Micu, R., Turcu, A.C., Moraar, M	Materiale electrotehnice. Îndrumator de laborator. Ediția a II-a,	UT Press	ISBN 978-973-662-315-8
3	Rodica CRET, Micu, R., Turcu, A.C., Morar, M	Materiale electrotehnice. Îndrumător de laborator, Ediția a III-a,	UT Press	ISBN 978-973-662-493-3
4	Rodica CRET, Turcu A.C.	Materiale electrice. Lucrari de laborator,	Mediamira	ISBN: 978-973-713-296-3
5	Turcu, A.C., Rodica CRET	Materiale electrotehnice. Lucrari de laborator,	Mediamira	ISBN: 978-973-713-304-5
6	Turcu, A.C, Darab, C.	Materiale electrotehnice, Indrumator de laborator,	Mediamira	ISBN: 978-973-713-358-8

**TEZA DE DOCTORAT**

CONDUCEREA DUPĂ CRITERII DE OPTIM A PROCESULUI DE COMPENSARE – SIMETRIZARE - TOPIRE LA CUPTORUL DE INDUCȚIE CU CREUZET ALIMENTAT LA FRECVENȚA REȚELEI	Conducator științific: Prof. Dr. Ing. Virgil MAIER
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## ARTICOLE INDEXATE SCIENCE CITATION INDEX EXPANDED (WEB OF SCIENCE) – ISI

Nr.	Autori	Titlu lucrare, Brevet / Revista (Conferinta), vol. iss, pp.
1	Darab, P.C, Turcu, A., Pica, C., Pavel, S.G., Beleiu, H.	REDUCING EARTH GROUNDING ELECTRICAL RESISTANCE BY USING METALLURGY INDUSTRIAL WASTE AS BACKFILL MATERIALS, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, vol. 61, pag. 69-72, <b>WOS:000428903500012</b>
2	Cirstea, S.D. Moldovan- Teselios, C., Cirstea, A., Turcu, A.C., Daraab C.P.	Evaluating Renewable Energy Sustainability by Composite Index, Sustainability 2018, 10, 811; doi:10.3390/su10030811, <b>WOS:000428567100238</b>
3	Darab, C.P., Turcu, A.C.	Internal Model Control for MPPT of a Solar PV System, 2017 International Conference on Modern Power Systems (MPS), <b>WOS:000428462600092</b>
4	Darab, C., Turcu, A. Stefanescu, S., Botezan, A., Pica, C., Pavel, S., Abdourraziq, S.	Robust Control of MPPT of a PV Cell, 2017 INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND POWER SYSTEMS (SIELMEN), <b>WOS:000426906000008</b>
5	Cret, R., Darabant, L., Farcas, C., Turcu, A.	Considerations about the Influence of Some Factors Related to the Geometric Characteristics of Inclusions on Effective Permittivity of Dielectric Mixtures, INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE), ISBN: 978-1-4577-0507-6, <b>WOS:000310701200083</b>
6	Cret, R., Darabant, L., Micu, D.D., Plesa, M., Turcu, A., Stet, D.	STUDY OF THE FACTORS THAT INFLUENCE THE EFFECTIVE PERMITTIVITY OF THE DIELECTRIC MIXTURES, REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, ISSN: 0035-4066, <b>WOS:000289219900007</b>
7	Florica Serban, Sorin Grozav, Vasile Ceclan, Antoniu Turcu	ARTIFICIAL NEURAL NETWORKS MODEL FOR SPRINGBACK PREDICTION IN THE BENDING OPERATIONS, Journal Tehnički vjesnik, ISSN 1330-3651 (Print), ISSN 1848-6339 (Online), DOI Number*): 10.17559/TV-20141209182117, <b>WOS:000541512300024</b>

## ARTICOLE INDEXATE IN BAZE DE DATE INTERNATIONALE - BDI

Nr.	Autori	Titlu lucrare / Revista (Conferinta), vol. iss, pp.	Baza de date
1	Turcu, A.C., Rusu, T.	A Contribution over the Thermal Field in Shapes during the Solidification and Cooling Period, International Conference in Hungary, Balatonszeplak, 6-8 September, 2001	ELSEVIER
2	Dolha, C., Turcu, A.C.	The Study about Stabilization of Operating Duty of Continuous Horizontaly Foundry Plant, International Conference in Hungary, Balatonszeplak, 6-8 September, 2001	ELSEVIER
3	Rusu, T., Zirbo, Gh., Turcu, A.C.	The Study of the Temperature Field from the Casting Molds in the Solidification and Casting of the Alloy, Proceedings of the International Conference on the Science of Casting and Solidification 2001 Brasov, Romania, ISBN-13: 978-973-9428-67-5, ISBN: 973-9428-67-3	SPRINGER
4	Rusu, T., Simona-Elena Avram, Turcu, A.C.	Impactul activităților din turnătorii asupra mediului, Conferința Inginerie Economică, Cluj-Napoca, martie, 2002, ISSN 1583-624X	EBSCO
5	Rusu, T., Turcu, A.C., Simona-Elena Avram	Analiza nivelului tehnic și calitativ al produselor prin utilizarea indicatorilor de calitate, Conferința Inginerie Economică, Cluj-Napoca, martie, 2002, ISSN 1583-624X	EBSCO
6	Rusu, T., Simona-Elena Avram, Micle, V., Dolha, C., Turcu, A.C., Crișan, N.	The Impact of the Economical Activities on the Someș-Nord Industrial Area from Cluj-Napoca over he Environment, Third International Conference on Materials and Manufacturing Technologies, Matehn'02, 12-14 Septembrie, Cluj-Napoca, În Acta Technica Napocensis, vol. 45, partea a II-a.	CSA, PROQUEST
7	Rusu, T., Turcu, A.C., Simona-Elena Avram	Impactul activităților din domeniul metalurgiei extractive asupra mediului, A doua Conferință tehnico-științifică „Profesorul Dorin Pavel – Fondatorul hidroenergeticii românești”, Sebeș, Mai 2002, Editura AGIR, ISBN 973 –8130 –82 –4	Index Copernicus

8	Rusu, T., Simona-Elena Avram, Turcu, A.C.	Introducerea „Tehnologiilor nepoluante” în procesele industriale, o cerință a Comunității Europene, A doua Conferință tehnico-științifică „Profesorul Dorin Pavel – Fondatorul hidroenergeticii românești”, Sebeș, Mai 2002, Editura AGIR, ISBN 973 –8130 –82 –4	Index Copernicus
9	Turcu, A.C., Dolha, C.,	Premodelarea transferului de căldură pe suprafața plană a pieselor, A doua Conferință tehnico-științifică „Profesorul Dorin Pavel – Fondatorul hidroenergeticii românești”, Sebeș, Mai 2002, Editura AGIR, ISBN 973 –8130 –82 –4	Index Copernicus
10	Rusu, T., Crișan, N., Simona-Elena Avram, Turcu, A.C.	The Mathemaical Moulding Utilisation for Optimising Processing of Moulding Batch for Founding, 6th International Reserch/Expert Conference „Trends in he Development of Machinery and Associated Technology” TMT 2002, Neum, Bosnia and Herzegovina, 2002, ISBN 995861711-0	EBSCO
11	Crisan, N., Rusu, T., Turcu, A.C., Simona-Elena Avram	The Study and Researches about Surfaces Hardening for Grey Iron Casting Pieces, , 6th International Reserch/Expert Conference „Trends in he Development of Machinery and Associated Technology” TMT 2002, Neum, Bosnia and Herzegovina, 2002, ISBN 995861711-0	EBSCO
12	Turcu, A.C., Rusu, T., Simona-Elena Avram	The Study About Force Variation over the Mobile Core for an Electrodynamics Vibrator using the „OPERA” Programs Package, 7th International Reserch/Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2003, Lloret del Mar, Barcelona, Spain, 15-17 September, 2003, ISBN 9958-617-18-8,;	EBSCO

13	Simona-Elena Avram, Rusu, T., Turcu, A.C.	The Study about Environmental Protection, Security and Hygiene of Work in Casting, , 7th International Reserch/Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2003, Lloret del Mar, Barcelona, Spain, 15-17 September, 2003, ISBN 9958-617-18-8	EBSCO
14	Rusu, T., Simona- Elena Avram, Turcu, A.C.	The Modeling of the Heat Transfer between the Alloy and Molding Box, , 7th International Reserch/Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2003, Lloret del Mar, Barcelona, Spain, 15-17 September, 2003, ISBN 9958-617-18-8;,,	EBSCO
15	Turcu, A.C., Rusu, T., Simona-Elena Avram	Studiu asupra vibratoarelor electrodinamice utilizând pachetul de programe OPERA, A Treia Conferință tehnico-științifică “Profesorul Dorin Pavel – Fondatorul hidroenergeticii românești“, Sebeș, Mai 2003, ISBN 973-8130-82-4, ISBN 973-8466-03-2	Index Copernicus
16	Rusu, T., Simona- Elena Avram, Turcu, A.C.	Aspecte privind gestionarea potențialului hidrografic din România, A Treia Conferință tehnico-științifică “Profesorul Dorin Pavel – Fondatorul hidroenergeticii românești“, Sebeș, Mai 2003, ISBN 973-8130-82-4, ISBN 973-8466-03-2	Index Copernicus
17	Simona-Elena Avram, Rusu, T., Turcu, A.C.	Influența condițiilor de muncă asupra randamentului activităților productive, A Treia Conferință tehnico-științifică “Profesorul Dorin Pavel – Fondatorul hidroenergeticii românești“, Sebeș, Mai 2003, ISBN 973-8130-82-4, ISBN 973-8466-03-2	Index Copernicus
18	Emil Riti-Mihoc, Nicolae Bal, Valer Micle, Antoniu Turcu	NOXIOUS EMISSIONS WITH CANCEROUS POTENTIAL IN CASTING PROCESSES, 3rd Research/Expert Conference With International Participations “Quality” 2003, Zenica, B&H, 13 and 14 November, 2003, ISSN 1512-9268	EBSCO

19	Radu Muresan, Codruța Pavel, Nicolae Bal, Emil Riti-Mihoc, Antoniu Turcu, Mircea Bejan	THE CONTROL OF THE MICROSTRUCTURE OF THE HEAVY ALLOYS BASED TUNGSTEN, AT SINTERING IN TWO STEPS, 3rd Research/Expert Conference with International Participations "QUALITY" 2003, Zenica, B&H, 13 and 14 November 2003, ISSN 1512-9268	EBSCO
20	Emil Riti-Mihoc, Nicolae Bal, Antoniu Turcu, Radu Muresan	RESEARCHES ABOUT CRITICAL TRANSITION TEMPERATURE FROM ELASTIC FIELD TO PLASTIC FIELD FOR PEARLITIC-FERRITE NODULAR CAST IRON, 3rd Research/Expert Conference With International Participations "Quality" 2003, Zenica, B&H, 13 and 14 November, 2003, ISSN 1512-9268	EBSCO
21	Stefănescu, S., Ostroveanu, A., Turcu, A.C.	Solid State Lighting, a New Trend in Lighting Technology, A 3-a Conferință Iluminat 2005 & Balkan-Light 2005, 2 - 3 Iunie 2005 Cluj-Napoca, România/ Solid State Lighting a new Trend in Lighting Technology, 3rd Balkan Conference of Lighting Balkanlight 2005, 2nd – 3rd of June 2005, Cluj-Napoca, Romania, ISBN 973-713-069-3	IEEE
22	H. Bălan, SG Pavel, A.C. Turcu	Study about electromagnetic inverter-vibrator system using the release modulation , Ninth Int. Research/Expert Conf. Trends in the Development of Machinery and Associated Technology. TMT2005, ISBN 9958-617-28-5	EBSCO
23	Horia Balan, Radu Tirnovan, Aurel Botezan, Antoniu Turcu, Petros Karaissas, Radu Balan,	Vibroacoustic methods in the diagnosis of the electric machines, ICEM 2006, <a href="http://www.icem.cc/Final_Program_ICEM2006.htm">http://www.icem.cc/Final_Program_ICEM2006.htm</a>	IEEE
24	V Maier, SG Pavel, CD Maier, A. Turcu	Power quality control in the power distribution networks, Proceedings of the TMT 2006 International Conference, Lloret de Mar, Spain, 11-15 September, 2006, ISBN 978-9958-617-28-5	EBSCO

25	Pavel Gh Sorin Gheorghe, Maier A Virgil, Maier V Colin Dan, Turcu AI Antoniu Claudiu	POWER QUALITY CONTROL IN THE POWER DISTRIBUTION NETWORKS, 10th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2006, Barcelona-Lloret de Mar, Spain, 11-15 September, 2006, ISBN 978-9958-617-28-5	EBSCO
26	Turcu Antoniu Claudiu, Balan Horia, Mircea Chindris, Botezan Aurel,	PIEZOELECTRIC TRANSDUCERS IN SYSTEM OF TOOLS, 10th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2006, Barcelona-Lloret de Mar, Spain, 11-15 September, 2006, ISBN 978-9958-617-28-5	EBSCO
27	Rodica Creț, Turcu, A.C., Mateescu, D.	Asupra utilizării electrostaticii pentru precipitarea unor particule materiale, În lucrările Simpozionului cu participare internațională „Știință și Inginerie”, Editura AGIR, București, 2006, pag. 333-338, ISBN 13 978-973-8130-82-4	Index Copernicus
28	Turcu, A.C., Maier, V. și Pavel, S.Gh.	The control of asymmetry due to high power mono-phased inductive loads. În: Acta Electrotehnica, vol. 47, nr.4, noiembrie 2006, Cluj-Napoca, Romania, pag. 183, ISSN 1841-3323	EBSCO
29	Rodica Creț, Laura Creț, Turcu, A.C.	Remarks of the influence of the shape of inclusions on the permittivity of dielectric mixtures. Proceedings of the International Conference „Materials for Electrical Engineering” – 5th edition of MmdE 2006, 15-16 June, București, 2006, pag. 179-184, ISBN 978-973-718-503-7	IEEE
30	Laura Creț, Rodica Creț, Turcu, A.C.	Numerical modeling of mixtures with very different permittivities of the components. Proceedings of the International Conference „Materials for Electrical Engineering” – 5th edition of MmdE 2006, 15-16 June, București, 2006, pag. 274-277, ISBN 978-973-718-503-7	IEEE
31	Pică, C. S., Turcu A. C., Pecci, T.	The comparative study between the High Pressure Sodium lamps and the new generation of ceramic Metal Halide lamps, În Ingineria Iluminatului, vol. 9/2007, ISSN 1454-5837	Index Copernicus

32	V. Maier, A.C. Turcu, S.G. Pavel	Control system design of a single phased power receiver for the compensating-symmetrizing process, Proceedings of 11th IEEE International Research/Expert Conference TMT, 2007, ISBN 9958-617-28-5	EBSCO
33	Antoniu Claudiu Turcu, Virgil Maier, Sorin Gheorghe Pavel,	TESTING ALGORITHM FOR NEGATIVE ASYMMETRY COEFFICIENT CALCULUS FOR A STEINMETZ SYMMETRIZING CIRCUIT, 11th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology "TMT 2007, Hammamet, Tunisia, 05-09 September, 2007, ISBN 9958-617-34-8	EBSCO
34	Rodica Creț, Laura Dărăbant, Turcu, A.C., Mihaela Pleșa,	Numerical simulations and experimental analysis of the polymers nonhomogenous dielectrics, Proceedings of the International Conference „Materials for Electrical Engineering”, 6th edition of MmDE 2008, 16-18 June, București, pag. 287-292, ISBN 978-973-606-521-028-8	IEEE
35	Rodica Creț, Turcu, A.C., Denisa Șteț, Micu, D.D.,	Study of the Factors that Affect the Effective Permittivity of the Dielectric Mixtures, Proceedings of the International Conference „Materials for Electrical Engineering”, 6th edition of MmDE 2008, 16-18 June, București, pag. 401-404, ISBN 978-973-606-521-028-8	IEEE
36	V Maier, AC Turcu, SG Pavel, I Birou	Analysis and simulations of unbalanced systems, 10th International Conference on Development and Application Systems, Suceava, Romania, 2010, ISSN 1844-5039	IEEE
37	Antoniu Claudiu Turcu, Virgil Maier, Sorin Gheorghe Pavel	THE UNBALANCED STATE SIMULATION, 15th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology "TMT 2011, Prague, Czech Republic, 12-18 September 2011, ISSN 1840-4944	EBSCO



38	Antoniu Claudiu Turcu, Sorin Gheorghe Pavel, Virgil Maier	THE COMPARATIVE ANALYSIS OF UNSYMMETRICAL STATE ASSESSING METHODS, , 16th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2012, Dubai, UAE, 10-12 September 2012, ISSN 1840-4944	EBSCO
39	Antoniu Claudiu Turcu, Sorin Gheorghe Pavel, Virgil Maier	THE APLICABILITY OF SIMPLIFIED RELATIONS FOR SYMMETRICAL COMPONENTS, 16th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2012, Dubai, UAE, 10-12 September 2012, ISSN 1840-4944	EBSCO
40	Sorin Dumitru Grozav, Vasile Adrian Ceclan, Antoniu Turcu	Kinematic Process Plastic Cold Orbital Forming, Applied Mechanics and Materials, 2015, ISSN 1662-7482, vol. 808, pag. 98-103	EBSCO, CSA
41	A. Turcu, V. Maier, S. Gh. Pavel	The Control of Asymmetry Due to High Power Mono-Phased Inductive Loads, 1st International Conference on Modern Power Systems MPS 2006, November 8- 11, 2006, Cluj-Napoca, ROMANIA ISSN-L 1841-3323, ISSN 2344-5637	IEEE
42	Turcu Antoniu, Balan Horia, Stefan Elena, Stefanescu Silviu	Electric Arc Welding Equipment's Testing in Accordance with 2006/95/CE Low Voltage Directive, pag. 496-501, MPS 2013 Conference, 28-31 Mai, Cluj-Napoca, ISNN 1841-3323	IEEE
43	Turcu Antoniu, Balan Horia, Pop Adrian Augustin, Stefanescu Silviu	Insulation Resistance Testing Procedures, pag. 502-505, MPS 2013 Conference, 28-31 Mai, Cluj-Napoca, ISNN 1841-3323	IEEE
44	C. Darab, A. Turcu, C.Pica, T. Coldea, C. Martineac	Using waste from iron mining in grounding systems to reduce earth resistivity", International Society for Engineering Research and Development (ISERD), Madrid, Spain, 2017, ISBN 978-93-87405-01-1.	EBSCO

45	A.C. Turcu, C.P. Darab	The Unbalanced State Simulation starting from Stokvis-Fortescue relationship”, International Journal of Management and Applied Science (IJMAS) , pp. 30-33, Volume-4,Issue-3, ISBN 978-93-87405-18-9, 2018	SCOPUS
46	Cosmin Darab, Radu Tarnovan, Antoniu Turcu, Corina Martineac	Artificial Intelligence Techniques for Fault Location and Detection in Distributed Generation Power Systems, 2019 8th International Conference on Modern Power Systems (MPS), 10.1109/MPS.2019.8759662	IEEE
47	Simona Sorina GABRIAN, Sorin–Dumitru GROZAV, Gabriel Nicodim CIUȘCĂ, Vasile Adrian CECLAN, Antoniu TURCU and Stanislaw LEGUTKO	New materials obtained by rubber recycling from industrial waste, <a href="https://doi.org/10.1051/mateconf/201929905010">https://doi.org/10.1051/mateconf/201929905010</a> , eISSN: 2261-236X	Scopus
48	Cosmin Darab, Antoniu Turcu, Horia Gheorghe Beleiu, Sorin Pavel ,Iulian Birou, Dan Doru Micu, Stefan Ungureanu,Stefan Dragos Cirstea	Hybrid Load Forecasting Using Gaussian Process Regression and Novel Residual Prediction, Appl. Sci. 2020, 10(13), 4588; <a href="https://doi.org/10.3390/app10134588">https://doi.org/10.3390/app10134588</a>	Compendex

## CONTRACTE DE CERCETARE

Nr.	Director/membrii	Denumire proiect	Perioada
1	Antoniu-Claudiu TURCU	PNIII - Dezvoltarea sistemului national de cercetare-dezvoltare, PN-III-P1-1.1-MC-2017-1613	01.09.2017-31.03.2018
2	Antoniu-Claudiu TURCU	PNIII - Dezvoltarea sistemului national de cercetare-dezvoltare, PN-III-P1-1.1-MC-2017-2148	01.09.2017-31.03.2018
3	Constantin Dolha, Valer Micle, Tiberiu Rusu, Simona Avram, Viorel Dan, Emil Riti- Mihoc	Cercetări privind turnarea continuă orizontală a barelor cilindrice cu diametrul sub 200 mm, din fontă cenușie, Tema B47, Contract nr.6113/2000	2000
4	Tiberiu Rusu, Simona Avrem, Valer Micle, Dan Viorel, Constantin Dolha	Cercetări privind monitorizarea și evaluarea riscului de poluare în zona industrială Someș-Nord, CNCSIS 1187 / nr. 34970/ 2001	2001
5	Emil SIMION, ISOC Dorin, CRET Rodica, MICU Dan Doru, DĂRĂBANT Laura, ȘTEȚ Denisa Liliana, BOTEZAN Aurel, TURCU Antoniu, IGNAT Dorel Aurelian, PLESA Mihaela, MAN Lucian, JOLDIS Adrian, CECLAN Andrei	Sistem de predicție și diagnoză inteligentă pentru prevenirea avariilor la cablurile de energie „CABDIAG”, CNMP, Programul 4 – PARTENERIATE IN DOMENIILE PRIORITARE, Nr. 22122 /2008	2008
6	Ioan Vadan, Antoniu TURCU	Structura energetică hibridă hidro-eoliană. Modelare și tuning pe stație pilot – hidroel" Finanțare: Buget de Stat - Ministerul Educației si Cercetării – Agentia Nationala de Cercetare Stiintifica, Programul PARTENERIATE IN DOMENIILE PRIORITARE. Nr. 21 062/septembrie 2007, contractor Societate comercială pentru cercetare, proiectare și producție de echipamente și instalații de automatizare-IPA S.A.	2007

7	Virgil Maier, Antoniu TURCU	Sistem de monitorizare treceri izolate in vederea prevenirii dezastrelor ecologice provocate de avariarea transformatoarelor de mare putere”, Contract Ceex nr.155/2006 beneficiar ICMET Craiova	2006
8	Sorin Gh. Pavel - director contract, Antoniu TURCU - membru	Asigurarea protectiei in retelele de joasa tensiune - Contract nr. 154/2006, beneficiar FDFEE Transilvania Nord	2006

Cluj-Napoca,  
07.2020

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