

LISTA DE LUCRĂRI

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Departamentul Mașini, Materiale și Acționări Electrice

I. TEZA DE DOCTORAT

T1. Dumitran L. M.: *Collection des fines particules dans un dépoussiéreur électrostatique (Fine particles collection in electrostatic precipitators)*, Teză de doctorat în cotutelă Universitatea „Politehnica” din București – Universitatea Joseph Fourier, Grenoble, Franța, 2001.

II. CĂRȚI PUBLICATE (Ca, Cb, Cc)

Ca1. L.M. Dumitran, *Sisteme de izolație electrică*, Editura Printech, 266 pag., ISBN 978-606-521-103-2, 2008.

Ca2. L.M. Dumitran, P.V.Notingher, *Materiale electrotehnice*, Editura MatrixRom, 353 pag., ISBN 978—606-25-0095-5, 2014.

Cb1. L.M. Dumitran, *Dépoussiérage électrostatique des fines particules*, Editura Presse Académique Francophone (PAF), 194 pag., ISBN 978-8381-4655-3, 2014.

Cb2. P.V.Notingher, L.M. Dumitran, C. Stancu, Maropoulos Stergios, *New materials for electrical equipments*, Editura IWN, Atena, pp. 73 – 144, ISBN: 978-960-508-052-5, 2012.

Cb3. L.M. Dumitran, *Assesment of Oil Impregnated Paper Insulation of Power Transformers using Absorption/Resorption Currents and Dielectric Spectroscopy* in: *Advances in Engineering: from Theory to Application*, Editor: E. Andronescu & C. Burileanu, Editura Politehnica Press, pp. 189-196, ISBN 978-606-515-381-3, 2012.

I1. P.V. Noțingher, F. Ciuprina și L.M. Dumitran, *Materiale pentru electrotehnică. Culegere de probleme*, Editura MatrixRom, 192 pag., ISBN 973-685-907-X, 2005.

I2. L.M. Dumitran, C. Stancu, *Sisteme de izolație. Lucrări practice și aplicații numerice*, Editura MatrixRom, 102 pag., ISBN 978-606-25-0101-3, 2014.

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

Ris Reviste cotate ISI sau indexate în baze de date internaționale (BDI) specifice domeniului

Ris1. Dumitran L.M., Manea A. and Gorjanu T., *Effect of Accelerated Aging Under High Electric Field and Partial Discharges on Electric Conduction in Mineral Oil*, IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 30, Issue: 4, Pag. 1623-1631, DOI: 10.1109/TDEI.2023.3292804, August 2023, ISSN: 1070-9878,

Ris2. Andrei Manea, Teodora Gorjanu, Andreea Lazeanu, and L.M. Dumitran, *Effect of electrical accelerated aging on DC resistivity of mineral oil used in power transformers*, ENERGIES, Volume16, Issue 1, DOI10.3390/en16010294, Article Number 294, Published JAN 2023, Document Type Article, IDS Number 7P8CT, eISSN 1996-1073, WOS:000908927300001

Ris3. Dankat, Gideon Gwanzuwang, and L. M. Dumitran, *Computation of the Electrical Resistance of a Low Current Multi-Spot Contact*, MATERIALS 15, no. 6: 2056. <https://doi.org/10.3390/ma15062056>, 2022, PubMed ID35329510, eISSN1996-1944, WOS:000779175300001

Ris4. Catinean, A., Dascalescu, L., Lungu, M., **Dumitran, L.M.**, Samuila, A., *Improving the recovery of copper from electric cable waste derived from automotive industry by corona-electrostatic separation*, Particulate Science and Technology, Volume 39, Issue 4, Page 449-456, DOI10.1080/02726351.2020.1756545, Published MAY 19 2021, Early Access APR 2020, WOS:000528364400001

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Ris8. Badicu, L. V.; Gorgan B., **Dumitran, L. M.**, Notingher, P. V.; *Assessment of Transformer Mineral Oil Condition Based on DC and AC Conductivity*, IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 19, No. 5, pag. 1544-1551, 2012, ISSN: 1070-9878, revistă cotată **ISI**, Science Citation Index Expanded, Web of Science, **FI=1.228**, WOS:000309732300012.

Ris9. Plopeanu, M. C.; Notingher, P. V.; **Dumitran, L. M.**; Tabi B., Antoniu. A., Dascalescu L., *Surface Potential Decay Characterization of Non-woven Electret Filter Media*, IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 18, No. 5, pag. 1393-1400, Published: OCT 2011, ISSN: 1070-9878, revistă cotată **ISI**, Science Citation Index Expanded, Web of Science, **FI=1.228**, WOS:000295797800007.

Ris10. Notingher P.V., **Dumitran L.M.**, Busoi, S.A. *Lifetime estimation of composite insulation by absorption/resorption currents method*, Revue Roumaine Sci. Tech.-Electr. et Energ., Tome 55, 4, 2010, pag. 365-374, IDS Number 322BP, ISSN 0035-4066, indexare **ISI** Web of Knowledge, **FI=0.337**, WOS:000286710100004.

Ris11. Tabi B., Mekideche, M. R., Plopeanu, M. C.; **Dumitran, L. M.**; Antoniu. A., Dascalescu L., *Factors That Influence the Decay Rate of the Potential at the Surface of Nonwoven Fabrics After Negative Corona Discharge Deposition*, IEEE Transactions on Industry Applications, Vol: 46, No. 4, 2009, pag. 1586-1592, ISSN: 0093-9994, revistă cotată **ISI**, Science Citation Index Expanded, Web of Science, **FI=2.046**, WOS:000282543800039.

Ris12. **Dumitran, L. M.**, Badicu, L. V.; Plopeanu, M. Dascalescu L., *Efficiency of Dual Wire-Cylinder Electrodes Used in Electrostatic Separators*, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, Vol: 55, No. 2, 2010, pag. 171-180, ISSN: 0035-4066, revistă cotată **ISI**, Science Citation Index Expanded, Web of Science, **FI=0.337**, WOS:000279820000008.

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Ris17. Dumitran L.M., L. Dascalescu L., Notingher P.V., Atten P., *Modeling of corona discharge in cylinder-wire-plate electrode configuration*, Journal of Electrostatics, Vol. 65, Issue 12, pag. 758-763, 2007, ISSN 0304-3886, revistă cotate **ISI**, Science Citation Index Expanded, Web of Science, **FI=1.265**, WOS:000310701200071.

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Ris20. Dascalescu, L., Urs, A. **Dumitran, L.M.** and Samuilă, A., *Charging of One or Several Cylindrical Particles in Monoionized electric Fields*, IEEE Transactions on Industry Applications, Vol. 39, Iss: 2, pag. 362-367, ISSN 0093-9994, revistă cotate **ISI**, Science Citation Index Expanded, Web of Science, **FI=2.046**, WOS: 000181757500010.

Ris21. Blanchard, D., **Dumitran, L.M.** and Atten, P., *Correlation between current density and layer structure for fine particles deposition in a laboratory ESP*, IEEE – IAS Transactions, Vol. 38, Issue 3, May/June 2002, pag.832-839, ISSN 0093-9994, indexare **ISI** Web of Knowledge, WOS: 000175819800029.

Ris22. L.M. Dumitran, P. Atten, D. Blanchard and P.V. Notingher, *Drift velocity of fine particles estimated from fractional efficiency measurements in a laboratory-scaled electrostatic precipitator*, IEEE – IAS Transactions, Vol. 38, Issue 3, May/June 2002, pag. 852-857, ISSN 0093-9994, IDS Number 555YC, revistă cotate **ISI**, Science Citation Index Expanded, Web of Science, **FI=2.046**, WOS: 000175819800032.

Ris23. D. Blanchard, **L.M. Dumitran** and P. Atten, *Effect of electro-aero-dynamically induced secondary flow on transport of fine particles in an electrostatic precipitator*, Journal of Electrostatics, 51-52, pag. 212-217, 2001, ISSN 0304-3886, IDS Number 434UY, revistă cotate **ISI**, Science Citation Index Expanded, Web of Science, **FI=1.265**, WOS: 000168835300032.

Ris24. Petru V. Notingher, **Laurentiu Marius Dumitran**, Cristina Stancu, *Insulation resistance – Monitoring parameter of power transformers insulations*, Journal of International Scientific Publications, Materials, Methods & Technologies ISSN 1314-7269, Volume 12, pp.28-48, 2018, indexată **Google Academic**.

Ris25. Vihacencu, M.; Ciuruc Al.; **Dumitran, L. M.**; *Experimental study of electrical properties of mineral and vegetable transformer oils*, Scientific Bulletin UPB, Electrical Engineering, Series C, Vol. 75, Iss. 3, 2013, pag. 171-182, ISSN 1454-234X, indexată **SCOPUS**, AuthorID:6602325638;

Ris26. Plopeanu, M. C.; Dumitran, L. M.; Notingher, P. V.; Vihacencu, M.; Dascalescu L., *Improvement of electric charging efficiency of the filtration media*, Scientific Bulletin UPB, Electrical Engineering, Series C, Vol. 75, Iss. 4, 2013, pag. 195-208, ISSN 1454-234X, indexată SCOPUS, AuthorID:6602325638;

Ris27. Badicu, L. V.; Notingher, P. V.; Dumitran, L. M.; Tanasescu G., Popa D., Batir G., *Évaluation de l'état de l'huile minérale par la détermination de la conductivité électrique et de la teneur en eau*, European Journal of Electrical Engineering, Vol. 15, Issue 2-3, 2012, pag. 141-155, ISSN: 21033641, indexată SCOPUS, AuthorID:6602325638, DOI: 10.3166/EJEE.15.

Ris28. Badicu, L. V.; Gorgan B., Busoi S., Dumitran, L. M., Notingher, P. V., *Use of time domain spectroscopy for assessment of oil impregnated paper condition*, Scientific Bulletin UPB, Electrical Engineering, Series C, Vol. 73, Iss. 4, 2011, pag. 267-282, ISSN 1454-234X, indexată SCOPUS, AuthorID:6602325638,

Ris29. L.V. Badicu, P.V. Notingher, L.M. Dumitran, G. Tanasescu, D. Popa and G. Batar, *Thermal ageing of oil impregnated paper for power transformers insulation systems*, Annals of the University of Craiova, Electrical Engineering, series, No. 34, pag. 7-10, 2010, ISSN 1842-4805.

Ris30. Notingher, P. V., Busoi, S.; Dumitran, L. M., Stancu C., Tanasescu G., *Ageing assessment of insulation systems by absorption/resorption currents*, World Academy of Science, Engineering and Technology, Vol. 37, No. 1, Publication 5413, January 2009, pag. 699-705, ISSN: 2010376X, indexată SCOPUS AuthorID:6602325638.

Ris31. Badicu, L. V.; Notingher P.V., Dumitran, L. M., Tanasescu G., Popa D.: *Use of dielectric spectroscopy to estimate the condition of cellulose-based insulation*, Journal of Electrical and Electronics Engineering, Vol. 2, Issue 1, 2009, pag. 6-12, ISSN 18446035, indexată SCOPUS, AuthorID:6602325638.

Ris32. P. V. Notingher, L.M. Dumitran, C. Stancu, G. Tanasescu, S. Busoi, M. Iacob and E. Balescu, *Assessment of the State of Insulation Systems for the Large Electrical Machines*, Analele Universității din Craiova – Seria Inginerie Electrică (6th International Conference on Electromechanical and Power Systems (SILEMAN 2007)), pag. 81 – 86, 2007, ISSN 1842 – 4805.

Rns. Articole publicate în reviste / volumele unor conferințe intexate în alte baze de date

Rns1. G.-G. Dankat, and L.M. Dumitran *Simulation of Electro-thermal Condition in a Faulty Low-Current Contact*, Electric Machines, Materials and Drives- Present and Trends, vol. 18, no. 1, pp. 80–88, Mar. 2023, Accessed: Jul. 04, 2023. [Online]. Available: <https://journal.iem.pub.ro/apme/article/view/353> , ISSN / ISSN-L: 1843-5912, CROSSREF <https://www.doi.org/10.36801/apme.2022.1.10>

Rns2. G.G. Dankat, A.A. Dobre, and L.M. Dumitran, *Analytical and Numerical Computation of Electrical Resistance in a Low Current Multi-Spots Metallic Contact*, Electric Machines, Materials and Drives- Present and Trends, vol. 17, no. 1, pp. 52–59, Feb. 2022. [Online]. Available: <https://journal.iem.pub.ro/apme/article/view/71>, ISSN / ISSN-L: 1843-5912, CROSSREF <https://www.doi.org/10.36801/apme.2021.1.7>

Rns3. G.-G. Dankat, A.-A. Dobre, and L.M. Dumitran, *Numerical Simulation of Thermal Condition of a Low Current Electric Contact*, Electric Machines, Materials and Drives- Present and Trends, vol. 16, no. 1, pp. 53–61, Jan. 2020. [Online]. Available: <https://journal.iem.pub.ro/apme/article/view/202> - ISSN / ISSN-L: 1843-5912, CROSSREF <https://www.doi.org/10.36801/apme.2020.1.6>

Rns4. P.V. Noțingher, **L.M. Dumitran**, Busoi, S., G. Tănăsescu, *Electric Resistivity Estimation of the Power Transformer Oil Lifetime*, Electrotehnica, Electronica, Automatica (EEA), 2018, vol. 66, no. 1, pp. 100-108, ISSN 1582-5175. (categoria B+).

Rns5. P.V. Noțingher, L.V. Badicu, **L. M. Dumitran**, G. Tanasescu, D. Popa “*Dielectric Losses in Cellulose-Based Insulations*”, Annals of the University of Craiova, Electrical Engineering Series, No. 33, 2009, pag. 169-175, ISSN 1842-4805 (categoria B).

Rns6. P. V. Noțingher, **L.M. Dumitran**, S. A. Busoi, C. Stancu, E. Bălescu, *Estimarea stărilor de îmbătrânire a izolațiilor pentru mașini electrice cu ajutorul curenților de absorbție/resorbție*, Electrotehnica, Electronica Automatica, 56 (2008), nr. 1-2, ianuarie-iunie 2008, pag. 45-53, ISSN 1582-5175, (categoria D).

Rns7. S. Cotescu, A. Mereanu, P.V. Noțingher, G. Tănăsescu, **L.M. Dumitran**, M. Bunea, C. Preduț, C. Popescu și F. Ciolacu, *Teste de îmbătrânire termică accelerată a izolației hârtie-ulei la transformatoarele și autotransformatoarele electrice*, Electrotehnica, Electronica, Automatica, 55 (2007), nr. 1, pag. 19-24, 2007 (categoria D)

Vis. Volumele unor manifestări științifice internaționale recunoscute indexate ISI și BDI

Vis1. Stefan-Alex Vasiliu, L.C. Popescu, A. Stanescu, and **L.M. Dumitran**, *Efficiency of Water Extraction in an Electrostatic Wire-Cylinder System*, International Symposium on Fundamentals of Electrical Engineering ISFEE 2023, November 16 – 18, Bucharest, Romania, ISBN 979-8-3503-0857-0979-8-3503-0856-3, DOI10.1109/ISFEE60884.2023.10637018, WOS:001324614500011

Vis2. G. G. Dankat, **L.M. Dumitran**, A. Vladescu Dragomir and A. Constantina Parau, *Influence of Accelerated Aging on the Electrical Resistance of Copper Contacts with ZrCu Discontinuous Thin Layer*, 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2023, pp. 1-6, IEEE Xplore - DOI: 10.1109/ATEE58038.2023.10108359, INSPEC Accession Number: 23002841.

Vis3. **L.M. Dumitran**, Andrei Manea and Teodora Gorjanu, *Influence of Electrical Accelerated Aging on the Conductivity and Activation Energy of Free Ions in Mineral Oil*, 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE) 23-25 March 2023, INSPEC Accession Number: 23002782, DOI: 10.1109/ATEE58038.2023.10108223

Vis4. Dankat, Gideon Gwanzuwang; Dobre, Alin Alexandru; **L.M. Dumitran**, *Influence of Ageing on Electrothermal Condition of Low Current Contact*, 2021 - 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Book Series International Symposium on Advanced Topics in Electrical Engineering, DOI10.1109/ATEE52255.2021.9425242, Published2021, ISBN978-1-6654-1878-2, ISSN1843-8571, WOS:000676164800107

Vis5. Manea, A; Dumitran, LM; Borzea, CI; Cazacu, E., *Accelerated Ageing Method of Mineral Oil Under High Electric Field and Partial Discharges*, 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Book Series International Symposium on Advanced Topics in Electrical Engineering, DOI10.1109/ATEE52255.2021.9425323, Published2021, ISBN978-1-6654-1878-2, ISSN1843-8571, WOS:000676164800155

Vis6. Popescu, L.; **Dumitran, L.M.**; Stanescu, A., *Multi-motor solutions for electric vehicles*, 2021 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), Book Series International Conference on Applied and Theoretical Electricity, DOI10.1109/ICATE49685.2021.9465016, Published2021, Indexed2021-11-18, ISBN978-1-7281-8035-9, ISSN2376-4163, WOS:000709089900039

Vis7. **Dumitran, L.M.**, Gorun, F., Nicolae, S., Mirica, C., *Dielectric Properties of Mineral and Vegetable Oils Mixtures for Power Transformers*, 2019 11TH INTERNATIONAL SYMPOSIUM

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Vis9. **Dumitran, L.M.**; Oancea C.D. Dumitran G.E., Experimental Study of Air Dehumidification in an Electrostatic Wire-Cylinder Condenser, 2017 10th International Symposium on Advanced Topics in Electrical Engineering, Pag: 440-433, Published: 2017, ISBN:978-1-5090-5160-1, ISSN: 1843-8571, 2017, WOS:000403399400084.

Vis10. Notingher, P.V.; **Dumitran, L.M.**; Busoi, S.; Tanasescu, G.; Badicu, L.V., Badicu, L.V.; Setnescu, R., Determination of the Remaining Lifetime of Power Transformers Liquid Insulations Based on the Absorption/Resorption Currents, 2017 10th International Symposium on Advanced Topics in Electrical Engineering, Pag: 428-433, Published:2017, ISBN:978-1-5090-5160-1, ISSN: 1843-8571, 2017, indexare **ISI** Web of Knowledge, WOS:000403399400084.

Vis11. Ciuruc Al., **Dumitran, L. M.**; Notingher P.V., *Estimation of Apparent Charge and Inception Voltage of Partial Discharges Produced in Vegetable Oil for Power Transformers*, Proceedings of the 9th International Symposium On Advanced Topics in Electrical Engineering (ATEE 2015) Location: Bucharest, Romania, May 07- 09, 2015, Publisher IEEE, 345 E 47TH ST, New York, NY 10017 USAI pag. 470-475, ISBN 978-1-4799-7514-3, indexare **ISI** Web of Knowledge, WOS:000368159800089.

Vis12. **Dumitran, L. M.**; Notingher P.V.; Dascalescu L., *Electrostatic Separation of Polymeric Granular Mixtures from Medium and Low Voltage Cables*, Proceedings of the 9th International Symposium On Advanced Topics in Electrical Engineering (ATEE 2015) Location: Bucharest, Romania, May 07- 09, 2015, Publisher IEEE, 345 E 47TH ST, New York, NY 10017 USAI pag. 507-510, ISBN 978-1-4799-7514-3, indexare **ISI** Web of Knowledge, WOS: 000368159800096.

Vis13. Ciuruc Al., **Dumitran, L. M.**; Notingher P.V., *Dielectric Properties of Paper Insulation Aged in the Presence of Vegetable Transformer Oil*, Proceedings of the 11th IEEE International Conference on Solid Dielectrics (ICSD) Location: Bologna, Italy, Jun. 30- Jul. 04, 2013, Vol. 1 & 2, Book Series: IEEE International Conference on Solid Dielectrics-ICSD, pag. 549-552, ISBN 978-1-4673-4461-6, ISSN: 1553-5282, indexare **ISI** Web of Knowledge, WOS: 000339117400128.

Vis14. **Dumitran, L. M.**; Ciuriuc, Al.; Notingh, P. V., *Thermal Ageing Effects on the Dielectric Properties and Moisture Content of Vegetable and Mineral Oil Used In Power Transformers*, Proceedings of the IEEE Conference: 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Bucharest, ROMANIA, MAY 23-25, 2013, pag. 1-6, ISBN:978-1-4673-5980-1; 978-1-4673-5979-5, indexare **ISI** Web of Knowledge, WOS:000332928500113.

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Vis16. Ciuruc Al., Vihacencu, M., **Dumitran, L. M.**; Notingher P.V., *Comparative Study on Power Transformers Vegetable and Mineral Oil Ageing*, Proceedings of the IEEE Conference: 11th International Conference on Applied and Theoretical Electricity (ICATE) Location: Craiova, ROMANIA, OCT 25-27, 2012, pag. 1-6, ISBN: 978-1-4673-1810-5, indexare **ISI** Web of Knowledge, WOS:000332581900019.

Vis17. Badicu, L. V.; Gorgan B., **Dumitran, L. M.**, Notingher, P. V.; Popa D.; *Oil Impregnated Paper Condition Assessment Using Time Spectroscopy Method*, Proceedings of the Conference: 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, ROMANIA, MAY 12-14, 2011, pag. 1-6, ISBN:978-1-4577-0507-6, ISSN: 1843-8571, indexare ISI Web of Knowledge, WOS:000310701200072.

Vis18. Busoi, S. A.; Notingher, P. V.; **Dumitran, L. M.**; *Calculation of Insulation Systems Wear of Medium Power Electrical Machines*, Proceedings of the Conference: 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, ROMANIA, MAY 12-14, 2011, pag. 1-4, ISBN 978-1-4577-0507-6, ISSN 1843-8571, indexare ISI Web of Knowledge, WOS:000310701200071.

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