

List of publications

I. Book:

M. Arghir, **R.C. Truşcă**, „Birotică”, Ed. U.T. Press Cluj-Napoca, 2003 (335 pag.), ISBN 973-662-019-0

II. Papers published in ISI journals:

1. The optimization of the antibiotics extraction from wastewaters and manure using Box-Behnken experimental design,
Opriş O., Soran M. L., Lung I., **Truşcă M. R. C.**, Szoke-Nagy T., Coman C.,
International Journal of Environmental Science and Technology, 2016, DOI 10.1007/s13762-016-1165-2 14(3), 473 – 480. IF 1.915
2. Induction of stress volatiles and changes in essential oils content and composition upon microwave exposure in the *Ocimum basilicum* aromatic plant,
Lung I, Soran M. L., Opriş O., **Truşcă M. R. C.**, Niinemets Ü., Copolovici L.,
Science of the Total Environment, 2016, 569–570, 489–495. IF 4.900

III. Papers published in non-ISI journals and proceedings

1. Microwave Field Effect on Polyphenolic Compounds from Aromatic Plants, M.L. Soran, M. Stan, I. Lung, **M.R.C. Truşcă**, *Journal of Sustainable Development of Energy, Water and Environment Systems*, 2016, 4(1), 48-55.
2. Application for temperature and humidity monitoring of data center environment
Ş. Albert, **M. R. C. Truşcă**, M. L. Soran
AIP Conference Proceedings 2015, 1700, doi: 10.1063/1.4938450
3. Environmental Parameters Control in Data center, **M.R.C. Truşcă**, Ş. Albert, M.L. Soran, M. Abrudean, *Proceeding of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014)*, - THETA 19th edition, May 22-24, 2014, Cluj-Napoca, Romania
4. Application for some Parameters Monitoring in Installation for Isotopes Separation, **M.R.C. Truşcă**, Ş. Albert, M.L. Soran, C. Varodi, F. Farcas, M.L. Unguresan, *Proceeding of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014)*, - THETA 19th edition, May 22-24, 2014, Cluj-Napoca, Romania
5. Power Consumption Monitoring Using Additional Monitoring Device, **M.R.C. Truşcă**, Ş. Albert, C. Tudoran, M.L. Soran, F. Fărcaş, M. Abrudean
AIP Conference Proceedings 2013, 1565, 185-187.
6. Application of Green IT for Physics Data Processing at INCDTIM, F. Fărcaş, **R. Truşcă**, Ş. Albert, Izabella Szabo and G. Popeneciu, Processes in Isotopes and Molecules - PIM 2011 – September 29 – 01 October, Cluj-Napoca, Romania, Series: AIP Conference Proceedings, Vol. 1425, 1-1 (2012) DOI: 10.1063/1.3681952, Subseries: Materials Physics and Applications, Lazar, Mihaela D. (Ed.) 2012, AIP-Press pp. 69-72 (ISBN 978-0-7354-1005-3)
7. Power consumption monitoring in ITIM Data center, **M.R.C. Truşcă**, Ş. Albert, F. Fărcaş, M. L. Soran, M. Abrudean, *Proceeding - Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science"*, 25 – 27 oct. 2012, Cluj-Napoca, Romania, pp. 93-95 (ISBN 978-973-662-710-1)
8. ITIM activity in Grid and High Performance Computing, F. Fărcaş, **M.R.C. Truşcă**, Ş. Albert, L. Soran, G. Popeneciu, *Proceeding - Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science"*, 25 – 27 oct. 2012, Cluj-Napoca, Romania, 27-30 (ISBN 978-973-662-710-1)
9. Implementation of an Additional Monitoring Device to Prevent Failures of the Cooling Systems, **M.R.C. Truşcă**, Ş. Albert, F. Fărcaş, M. L. Soran, M. Abrudean, *Proceeding of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012)*, - THETA 18th edition, May 24-27, 2012, Cluj-Napoca, Romania, M1 225
10. Techniques for parameters monitoring in data center, **M.R.C. Trusca**, F. Farcas, C.G. Floare, S. Albert, I. Szabo, XXIII International Symposium on Nuclear Electronics & Computing NEC'2011, Bulgaria, Varna, 12-19 September, 2011, pp. 259-263

11. Grid computing improvement at INCDTIM Cluj, F. Farcas, **R. Trusca**, Proceeding of REV-2011, Remote Engineering and Virtual Instrumentation, International Association of Online Engineering, 28 June - 01 July 2011 in Brasov, Romania, pp 121-124 (ISBN 978-3-89958-55-1)
12. Infrastructure optimization for Deploying a MPI cluster dedicated to nano- and biomolecular processing, Gh. Adam, S.D. Belov, F. Fărcaș, C. Floare, V.V. Korenkov, V.V. Mitsyn, G. Popeneciu, **R. Trusca**, *The 4-rd International Conference "Distributed Computing and Grid-technologies in Science and Education"* June 30 - July 4, 2010 Dubna, Russia, pp 25-29, (ISBN 978-5-9530-0269-1)

IV. Communications at international conferences

1. Improving of the temperature monitoring system in INCDTIM Data Center, **M R C Trușcă**, Ș Albert, F Fărcaș, RO-LCG 2018 Conference, "Grid, Cloud and High-Performance Computing in Science, 17-19 October 2018, Cluj-Napoca
2. Efficient monitoring of the environmental factors in Data center, **Mihail Radu Cătălin TRUȘCĂ**, Felix FĂRCAȘ, Ștefan ALBERT, ., 18th International Balkan Workshop on Applied Physics and Materials Science, 10-13 July, 2018, Constanța, România
3. Optimization of polyphenols extraction from hawthorn fruits, **Trușcă M.R.C.**, Opreș O., Lung I., Ghendov-Moșanu A., Sturza R., Soran M.L. „11th International Conference – Processes in Isotopes and Molecules (PIM 2017)”, 27 – 29 September 2017, Cluj-Napoca, România.
4. Improving of the GRID computing system efficiency, **M R C Trușcă**, F Fărcaș, Ș Albert, M L Soran, RO-LCG 2016 Conference, "Grid, Cloud and High-Performance Computing in Science, 26-28 October 2016, Bucuresti
5. Quantification of Some Antibiotics from Different Classes from Waste Waters, 7th International Conference on Environmental Science and Technology (ICEST 2016), 10-12 June 2016, Barcelona, Spania, Maria - Loredana Soran, Ocsana Opreș, Ildiko Lung, **Mihail Radu Cătălin Trușcă** and Manuela Stan
6. Determination of Penicillins, Tetracyclines and Cephalosporins from Manure, 7th International Conference on Environmental Science and Technology (ICEST 2016), 10-12 June 2016, Barcelona, Spania, **Mihail Radu Cătălin Trușcă**, Ocsana Opreș, Ildiko Lung, Maria - Loredana Soran and Veronica Floare – Avram
7. Antibiotics determination from waste waters, 10th Conference on Sustainable Development of Energy, Water and Environment Systems, September 27 - October 3, 2015, Dubrovnik, Croatia, **Mihail Radu Cătălin Trușcă**, Ildiko Lung, Ocsana Opreș, Maria - Loredana Soran
8. Identification and quantification of antibiotics from manure used as biofertilizer, 10th Conference on Sustainable Development of Energy, Water and Environment Systems, September 27 - October 3, 2015, Dubrovnik, Croatia, Maria - Loredana Soran, Ocsana Opreș, Ildiko Lung, **Mihail Radu Cătălin Trușcă**
9. The Benefits of Data Center Temperature Monitoring, Ș. Albert, **M.R.C. Trușcă**, M.L. Soran, *Grid, Cloud and High Performance Computing in Science, RO-LCG 2015*, October 28-30, 2015, Cluj-Napoca, Romania
10. Application for Temperature and Humidity Monitoring of Data Center Environment, Ș. Albert, **M.R.C. Trușcă**, M.L. Soran, 10th International Conference "Processes in Isotopes and Molecules" PIM 2015 –September 23-25, 2015, Cluj-Napoca, Romania
11. Temperature and Active Power Monitoring in INCDTIM Data Center, RO-LCG 2014 Conference, "Grid, Cloud and High-Performance Computing in Physics Research, 3-5 November 2014, Bucuresti, **M.R.C. Trușcă**, Ș. Albert, **M.L. Soran**, M.I. Abrudean
12. Electricity Consumption Reducing by Use the Application UPT 210, **M.R.C. Trușcă**, Ș. Albert, M.L. Soran, M.I. Abrudean, *2nd International Congress on Energy Efficiency and Energy Related Materials (ENEFM2014)*, October 16-19, 2014, Oludeniz, Turcia
13. The GSM Microwave Field Influence on Vitamin C and Polyphenols from Celery, M. L. Soran, M. Stan, I. Lung, **M. R. C. Trușcă**, *2nd International Congress on Energy Efficiency and Energy Related Materials (ENEFM2014)*, October 16-19, 2014, Oludeniz, Turcia

14. Control and reducing of computing systems power consumption, **M.R.C. Trușcă**, C. Tudoran, S. Albert, M.L. Soran, M. Abrudean, *9th Conference on Sustainable Development of Energy, Water and Environments Systems*, September 20-27, 2014, Venice-Istambul
15. Microwave Field Effect on Polyphenolic Compounds from Aromatic Plants, M.L. Soran, M. Stan, I. Lung, **M.R.C. Trușcă**, *9th Conference on Sustainable Development of Energy, Water and Environments Systems*, September 20-27, 2014, Venice-Istambul
16. Environment protection by parameters monitoring and energy consumption reducing from different systems, **M.R.C. Trușcă**, C. Tudoran, Ș. Albert, F. Fărcaș, M.L. Soran, *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, June 23-26, 2014, Tara Mountain, Serbia
17. Microwave fields effect on the essential oils from some aromatic plants, M.L. Soran, M. Stan, I. Lung, L. Copolovici, **M.R.C. Trușcă**, *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, June 23-26, 2014, Tara Mountain, Serbia
18. Environmental Parameters Control in Data center, **M.R.C. Trușcă**, Ș. Albert, M.L. Soran, M. Abrudean, *2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014),- THETA 19th edition*, May 22-24, 2014, Cluj-Napoca, Romania
19. Application for some Parameters Monitoring in Installation for Isotopes Separation, **M.R.C. Trușcă**, Ș. Albert, M.L. Soran, C. Varodi, F. Farcas, M.L. Unguresan, *2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014),- THETA 19th edition*, May 22-24, 2014, Cluj-Napoca, Romania
20. Monitoring Data Center Power Consumption, **M.R.C. Trușcă**, Ș. Albert, C. Tudoran, M.L. Soran, F. Fărcaș, M. Abrudean, *ATLAS Annual Meeting*, October 17 – 18, 2013, Timisoara, Romania
21. Methods for Monitoring of Data Center Parameters to Reduce Energy Consumption, **M.R.C. Trușcă**, C. Tudoran, Ș. Albert, F. Fărcaș, M. Abrudean, M.L. Soran, *International Congress on Energy Efficiency and Energy Related Materials*, October 9-12, 2013, Kemer, Turcia
22. Grid computing evolution in ITIM, F. Fărcaș, **M.R.C. Trușcă**, D.F. Nicoară, International Conference "Processes in Isotopes and Molecules" PIM 2013 – 24 - 27 September, Cluj-Napoca, Romania
23. The monitoring of power consumption using additional monitoring device, **M.R.C. Trușcă**, Ș. Albert, C. Tudoran, M.L. Soran, F. Fărcaș, M. Abrudean, International Conference "Processes in Isotopes and Molecules" PIM 2013 – 24 - 27 September, Cluj-Napoca, Romania
24. Power consumption tier monitoring in ITIM Data center, **M.R.C. Trușcă**, Ș. Albert, F. Fărcaș, M. L. Soran, M. Abrudean, Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science", 25 - 27 oct. 2012, Cluj-Napoca, Romania
25. ITIM activity in Grid and High Performance Computing, F. Fărcaș, **M.R.C. Trușcă**, Ș. Albert, L. Soran, G. Popeneciu, Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science", 25 - 27 oct. 2012, Cluj-Napoca, Romania
26. Temperature monitoring in Grid infrastructure, **M.R.C. Trușcă**, Ș. Albert, F. Fărcaș, M. L. Soran, I. Szabo, The 5th International Conference "Distributed Computing and Grid-technologies in Science and Education", July 16 - 21, 2012, Dubna, Russia
27. HPLC Determination of Vitamin C from Indigenous Parsley Extracts Obtained by Different Extraction Techniques, M.L. Soran, M. Stan, I. Lung, **M.R.C. Trușcă**, 7th Conference on Sustainable Development of Energy, Water and Environment Systems, 1 - 7 iulie, Ohrid, Macedonia
28. Techniques for establishing and maintaining constant temperature in ICT systems in order to reduce energy consumption, **M.R.C. Trușcă**, Ș. Albert, F. Fărcaș, M. L. Soran, 7th Conference on Sustainable Development of Energy, Water and Environment Systems, 1 - 7 iulie, Ohrid, Macedonia
29. Determination of Vitamin C in Parsley Grown in the Microwave Field, M.L. Soran, M. Stan, C. Varodi, I. Lung, C. Tudoran, **M.R.C. Trușcă**, 1st International Congress of Environmental Science and Technology; 1st National Congress of the Argentinean Society of Environmental Sciences and Technologies, 28 mai - 01 iunie 2012, Mar del Plata, Argentina

30. Temperature Monitoring in Different Systems and its Influence on Energy Consumption, **M.R.C. Trușcă**, Ș. Albert, F. Fărcaș, M. L. Soran, 1st International Congress of Environmental Science and Technology; 1st National Congress of the Argentinean Society of Environmental Sciences and Technologies, 28 mai - 01 iunie 2012, Mar del Plata, Argentina
31. Implementation of an Additional Monitoring Device to Prevent Failures of the Cooling Systems, **M.R.C. Trușcă**, Ș. Albert, F. Fărcaș, M. L. Soran, M. Abrudean, 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012),- THETA 18th edition -, May 24-27, 2012, Cluj-Napoca, Romania
32. Application of Green IT for Physics Data Processing at INCDTIM, F. Fărcaș, **R. Trușcă**, Ș. Albert, Izabella Szabo and G. Popeneciu, Processes in Isotopes and Molecules - PIM 2011 – September 29 – 01 October, Cluj-Napoca, Romania
33. Techniques for parameters monitoring in data center, **M.R.C. Trușcă**, F. Fărcaș, C.G. Floare, Ș. Albert, I. Szabo, XXIII International Symposium on Nuclear Electronics & Computing NEC'2011, Bulgaria, Varna, 12-19 September, 2011, pp. 259-263
34. Grid computing Improvement at INCDTIM Cluj, F. Fărcaș, **R. Trușcă**, Proceeding of REV-2011, Remote Engineering and Virtual Instrumentation, International Association of Online Engineering, 28 June - 01 July 2011 in Brasov, Romania, ISBN 978-3-89958-55-1
35. Infrastructure optimization for deploying a MPI cluster dedicated to nano- and biomolecular processing, Gh. Adam, S.D. Belov, F. Fărcaș, C. Floare, V.V. Korenkov, V.V. Mitsyn, G. Popeneciu, R. Trușcă, The 4-rd International Conference "Distributed Computing and Grid-technologies in Science and Education

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