

Selection of representative scientific contributions & research projects

A. PAPERS PUBLISHED IN PEER-REVIEWED / INTERNATIONAL DATABASE INDEXED JOURNALS & PROCEEDINGS

1. De Sabata A., Balint C., Bechet P., **Miclaus S.**, USRP Based HF Spectrum Occupancy Measurements in the Western Part of Romania, 13-th International Symposium on Signals, Circuits and Systems - ISSCS 2017, Iasi, July 13 - 14, 2017- **IEEEExplore, ISI Proceedings**
2. Balint C., De Sabata A., Bechet P., **Miclaus S.**, Joint Spectrum Availability Measurement in the 4.5-10.5 MHz HF Band, *Proceedings 14th International Conference on Engineering of Modern Electric Systems - EMES 2017*, Oradea, Romania, June 1-2, 2017 - **IEEEExplore**.
3. Karpowicz J., **Miclaus S.**, Gryz K., An Evaluation of the Collateral Influence of a Pulsed Electromagnetic Field Emitted by Physiotherapeutic Devices, *Proceedings 6-th International Conference on e-Health and Bioengineering*, EHB 2017, Sinaia, 22-24 June 2017 - **IEEEExplore, ISI Proceedings**
4. **Miclaus S.**, Dumbrava I., Voicu V., Bechet P., Electromagnetic dosimetry of radiofrequency portable transceivers used in front of the face, *Proceedings of the International Conference Knowledge-Based Organization*, Vol. XXIII, June 2017 - **DeGruyter**
5. Sarbu A., Bechet P., **Miclaus S.**, Mobile phone user exposure assessment to UMTS and LTE signals at mobile data turn on by applying an original method, *Proceedings International Conference Knowledge-Based Organization*, Land Forces Academy Publishing House, Sibiu, Romania, June 2017- **DeGruyter**
6. **Miclaus S.**, Dumbrava I., Voicu V., Bechet P., Patru I., Electromagnetic Exposure due to Portable Two-way Radio Transceivers and Walkie-Talkies, *Proceedings of the 10th International Symposium On Advanced Topics In Electrical Engineering*, Bucharest, Romania, 23-25 March, 2017, Pages: 346-349, 2017 - **IEEE Xplore, ISI Proceedings**
7. **Miclaus S.**, Racuciu M., Bechet P., H-field contribution to the electromagnetic energy deposition in tissues similar to the brain but containing ferrimagnetic particles, during use of face-held radio transceivers, *Progress in Electromagnetics Research B*, PIER B, vol. 73, pp. 49-60, 2017 – **BDI**
8. Racuciu M. Iftode C., **Miclaus S.**, Ultrahigh Frequency-Low Power Electromagnetic Field Impact On Physiological Parameters Of Two Types Of Cereals, *Romanian Reports in Physics*, vol. 69, in press, 2017 – **ISI**
9. Has I., **Miclaus S.**, An initial model of ether describing electromagnetic phenomena, including gravity, *Physics Essays*, 30(1), pp. 45-56, March 2017 – **BDI**
10. Racuciu M., Iftode C., **Miclaus S.**, Athermal microwave radiation affects the genetic of vegetal embryos, *Environmental Engineering Management Journal*, vol. 15, no. 12, 2016 - **ISI**
11. Apreutesei A.-L., Curteza A., Paljanos A., **Miclaus S.**, Mihai G., Aron A.M., Bechet P., Baltag O., Radiation reduction capabilities of some woven fabrics with metallic yarns attached to mobile phones emitting in 2G- and 3G- communication standards, *Proceedings of 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016*, Iasi, 20-22 October 2016, - **ISI Proceedings**
12. **Miclaus S.**, Karpowicz J., Bechet P., Human body coupling to near field of VHF antennas indoor: an expo-dosimetric survey, *Proceedings of 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016*, Iasi, 20-22 October 2016, - **ISI Proceedings**
13. **Miclaus S.**, Bechet P., Karpowicz J., Empirical Approach of Human Exposure to Near Field of a Biconical Dipole VHF Antenna: An Occupational Safety Perspective, *Proceedings of 2016 Workshop on "Safer EMF working environment in EU", International Conference on Applied and Theoretical Electricity – ICATE 2016*, Craiova, 6-8 October 2016, - **ISI Proceedings**
14. Bechet P., **Miclaus S.**, Miclaus A., Balint C., Experimental Analysis of Noise Level and Channels Availability for High Frequency OFDM data transmission in NVIS propagation conditions, *Proceedings of EMC Europe 2016*, Wroclaw, 6-8 Sept. 2016 – **IEEE Xplore**
15. Pantelaki K.G., Stratakis D.I., Pallis E.M., **Miclaus S.**, Zaharis Z.D., Xenos T.D., Radar Measurements with Remote Control Software, *Proceedings of 2016 International Conference on Telecommunications and Multimedia (TEMU)* Heraklion, Creta, Greece, 25-27 July, 2016, DOI: 10.1109/TEMU.2016.7551909 – **ISI Proceedings**
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17. **Miclaus S.**, Bechet P., Paljanos A., Mihai G., Patru I., Aron A.M., Baltag O., Shielding Effectiveness Of Some Conductive Textiles And Their Capability To Reduce The Mobile Phones Radiation, *International Conference Knowledge-Based Organization*, Vol. XXII No 3 2016, Land Forces Academy Publishing House, Sibiu, Romania, June 2016, DOI: 10.1515/kbo-2016-0091 - **DeGruyter**
18. Paljanos A., **Miclaus S.**, Bechet P., Munteanu C., Assessment of mobile phone user exposure to UMTS and LTE signals: Comparative near field radiated power levels for various data and voice application services, *Journal of Electromagnetic Waves and Applications*, DOI: 10.1080/09205071.2016.1167634, 2016 – **ISI**

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22. **Miclaus S.**, Bechet P., Stanic M., Iftode C., Comparative Preliminary Ionospheric Forecasting In Romania With Data From The European Ionosonde Service Versus Data Extracted From The International Reference Ionosphere Model, *International Conference Knowledge-Based Organization*, Vol. XXI No 3 2015, Land Forces Academy Publishing House, Sibiu, Romania, June 2015, DOI: 10.1515/kbo-2015-0119 - **DeGruyter**
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29. Racuciu M., Iftode C., **Miclaus S.**, 1GHz low-thermal microwaves effect on mitotic division of vegetal tissues, *Proceedings Of The 2014 International Conference And Exposition On Electrical And Power Engineering / Third International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology*, ISBN: 978-1-4799-5848-1, Iasi, Romania, pp. 591-595, 16-18 Oct. 2014- **ISI Proceedings**
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B. CONTRIBUTIONS AT INTERNATIONAL SCIENTIFIC MEETINGS (including ISI indexed proceedings up to 2014)

1. Rosu G., Baltag O., Miclaus S., Morega M., Engineering and bio-engineering approach of the research carried out in Romania on the effects of electromagnetic fields exposure, The 22nd Nuclear Medical Defense Conference - ConRad, Bundeswehr Institute of Radiobiology, Munich, Germany, 8-11 May 2017.
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C. PUBLISHED BOOKS

1. Miclaus S., Introduction to microwaves bioelectromagnetics, "Lucian Blaga" University Press, 128 pages, ISBN 973-8012-06-6, Sibiu, Romania, 1999 (in romanian).
2. Miclaus S, Dosimetry of radiofrequency and microwave fields – Theoretical and experimental elements - Land Forces Academy Press, 325 pages, ISBN 978-973-7809-82-7, Sibiu, Romania, 2007 (in romanian).
3. Miclaus S., Nuclear physics elements – Course notes, Land Forces Academy Press, 214 pages, ISBN 978-973-153-076-5, Sibiu, Romania, 2010 (in romanian).
4. Velicof M., Miclaus S., Radiological and nuclear incidents and threats from defense perspective, 238 pages, ISBN 978-606-616-003-2, Tehno Media Press, Sibiu, 2011 (in romanian)
5. Miclaus S., Calota V., Expunerea in campurile electromagnetice: Determinari in campul apropiat si in campul indepartat al surselor de radiofrecventa, Ed. Technomedia, Sibiu, 2013 (in romanian).

D. RESEARCH GRANTS/PROJECTS

1. Project title: "*The study of electromagnetic energy absorption in models of biological systems exposed to modulated microwaves emitted by radar installations*", Project manager, 2001-2002, Grant type T, supported by National Agency for Science, Technology and Innovation, Romanian Ministry of Education and Research.
2. Project title: "*Application of computational methods for dosimetric assessment of RF fields absorbed in biological models*", Project team member, 2004-2005, Grant type A, supported by Natl. Council of Scientific Research in Universities, Romanian Ministry of Education and Research.
3. Project title: "*Research on bio-electromagnetic interaction and on the biologic impact of human exposure to radiofrequency and microwaves electromagnetic fields*", Project director, 6 institutional partners involved, 2005-2007, contract granted under National Research Program CEEX, Romanian Ministry of Education and Research.
4. Project title: "*Microwaves interaction with molecular and bio-molecular systems*", Project responsible in the subcontractor institution, 6 institutional partners involved, 2005-2008, sub-contract granted under National Research Program CEEX, Romanian Ministry of Education and Research.
5. Project title: "*Contributions to the study and development of frequency synthesizers structures in specific applications*", Member of team, granted by Ministry of Education and Research of Romania, 2001-2002.
6. Project title: "*Study on the military systems' interoperability*", Member of team, granted by Ministry of Education and Research of Romania, 2004-2005.
7. Project title: "*Elaboration of a decisional instrument for the optimization of the capabilities at tactical level in the area of national security and defense*", Member of team, granted by Ministry of Education and Research of Romania, 2005-2006.

8. Project title: *"Research on optimization of the military radio capabilities integrated in standardized communication environment"*, Member of team, granted by Ministry of Education and Research of Romania, 2007-2010.

9. Project title: *"Predictions of ionospheric propagation and wide-band communications by using SDR sensors in HF frequency band for informational support in emergency cases in Romania"*, member of team at coordinating institution, grant from Ministry of Education and Research of Romania, under Partnership program PN-II-PT-PCCA-2013, period 2014-2017.

E. Other contributions

- Suppleant member of the Management Committee and member of the working group WG3 of European BMBS COST Action BM1309 - "European network for innovative uses of Electromagnetic Fields in biomedical applications (EMF-MED)" 2014-2018

- Member of the Management Committee and member of working group WG1 of European Action COST BM0704 "Emerging EMF Technologies and Health" 2008-2012

- Reviewer of journals quoted by Clarivate Analytics (ex – ISI):

1) Progress in Electromagnetic Research (PIER, PIER B,C,M, PIER Letters) - from 2009;

2) Measurement – from 2014;

3) Scientific Research and Essays – from 2014

4) Neural Computing and Applications – from 2014

5) International Journal of Occupational Safety and Ergonomics (JOSE) – from 2014

6) Environmental Engineering and Management Journal (EEMJ) – from 2015

7) Journal of Electromagnetic Analysis and Applications (JEMAA) – from 2016

8) Journal of Biological Physics – from 2017

9) Journal of Visualized Experiments (JoVE) – from 2017.

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