SELECTED PUBLICATIONS LIST

Dr. Cristina M. Muntean

ARTICLES IN ISI JOURNALS

1. **C. M. Muntean**, D. Cuibus, S. Boca, A. Fălămaş, N. Toşa, I. A. Brezeştean, A. Bende, L. Barbu-Tudoran, R. Moldovan, E. Bodoki, C. Farcău (2023) "Gold vs. silver colloidal nanoparticle films for optimized SERS detection of propranolol and electrochemical-SERS analyses", Biosensors, 13, 530.

2. A. Fălămaş, D. Cuibus, N. Toşa, I. Brezeştean, **C. M. Muntean**, K. Milenko, E. Vereshchagina, R. Moldovan, E. Bodoki, C. Farcău (2023) "Toward microfluidic SERS and EC-SERS applications via tunable gold films over nanospheres", Discover Nano, 18, 73.

3. **C. M. Muntean**, R. Ştefan, A. Tăbăran, A. Bende, A. Fălămaş, L. E. Olar (2023) "Characterization of the structural changes of the genomic DNA of *Staphylococcus aureus* due to femtosecond laser irradiation by Fourier transform infrared (FT-IR) spectroscopy", Analytical Letters - published on line.

4. N. E. Dina, **C. M. Muntean**, I. Bratu, A. Tican, A. Halmagyi, M. A. P. Purcaru, A. Coste (2022) "Structure and surface dynamics of genomic DNA as probed with surface-enhanced Raman spectroscopy: Trace level sensing of nucleic acids extracted from plants", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 279, 121477, p. 1-7.

5. I. A. Brezeştean, N. Toşa, A. Fălămaş, D. Cuibus, **C. M. Muntean**, A. Bende, B. Cozar, C. Berghian-Groşan, C. Farcău (2022) "Silver nanoparticle films obtained by convective self-assembly for surface-enhanced Raman spectroscopy analyses of the pesticides thiabendazole and endosulfan", Frontiers in Chemistry 10, Article 915337, p. 1-14.

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7. **C. M. Muntean**, R. Ştefan, A. Tăbăran, C. Tripon, A. Bende, A. Fălămaş, L. M. Colobăţiu, and L. E. Olar (2021) "The influence of UV femtosecond laser pulses on bacterial DNA structure, as proved by Fourier transform infrared (FT-IR) spectroscopy", ChemistrySelect 6 (27) 6957-6972.

8. **C. M. Muntean**, N. E. Dina, I. Bratu, C. Tripon, S. Niţu (Năstase) and A. Coste (2021) "Acidic pH-responsive changes of DNA structure and surface dynamics as probed with ultrasensitive Raman spectroscopy", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 258, 119866.

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11. **C. M. Muntean**, N. E. Dina, T.-L. Biter, I. Bratu, M. Coroş, C. Socaci and A. Coste (2020) „Surface dynamics of genomic DNAs upon lowering the pH, in the presence of graphene/AgNPs-based SERS detection platform", Journal of Molecular Modeling, 26 (8): 211 (p. 1-9).

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15. **C. M. Muntean**, I. Bratu, C. Tripon, K. Nalpantidis, M. A. P. Purcaru, V. Deckert (2017) "Molecular relaxation processes in nucleic acids components as probed with Raman spectroscopy", Revista de Chimie (Bucharest), 68 (10) 2471-2476.

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22. C. Tripon, **C. M. Muntean**, L. Buimaga-Iarinca, A. Calborean (2015) "DFT investigation of the vibrational properties of AT base pairs in the presence of Ca^{2+} and Mn^{2+} ions", Biomedical Spectroscopy and Imaging, Vol. 4, Nr. 2, 189-196.

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EDITOR

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(Parts of) ISI PROCEEDINGS BOOKS

1. N. E. Dina Mircescu, **C.M. Muntean**, N. Leopold (2017) "Discrimination of grapevine genomic DNA using surface-enhanced Raman spectroscopy and PCA", 33rd Course of International School of Atomic and Molecular Spectroscopy on "Nano-optics: Principles enabling basic research and applications", July 4th-July 19th, 2015, Erice, Sicily, Italy. NATO Science for Peace and Security Series B: Physics and Biophysics, Series ISSN 1874-6500, Sub-series "Nano-Optics: Principles Enabling Basic Research and Applications", Baldassare Di Bartolo, John Collins, Luciano Silvestri Eds., Springer, Dordrecht, The Netherlands, pp 499-500, Hardcover ISBN: 978-94-024-0848-5; Softcover ISBN 978-94-024-0869-0, eBook ISBN 978-94-024-0850-8.

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