

## **SELECTED PUBLICATIONS LIST**

**Dr. Cristina M. Muntean**

### **ARTICLES IN ISI JOURNALS**

1. N. Toşa, N. E. Dina, B. I. Cozar, A. Coste, A. Halmagyi, M. Pârvu, **C. M. Muntean**, (2024) “Structural characterization of DNA from *Allium* leaves and *E. coli* by surface-enhanced Raman spectroscopy (SERS)”, Analytical Letters - published online.
2. **C. M. Muntean**, R. Ştefan, A. Tăbăran, A. Bende, A. Fălămaş, L. E. Olar (2024) “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 57(5), 711-726.
3. **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.
4. 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.
5. 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, 1-7.
6. 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, 915337, 1-14.
7. R. Moldovan, E. Vereshchagina, K. Milenko, B.-C. Iacob, A. E. Bodoki, A. Fălămaş, N. Toşa, **C. M. Muntean**, C. Farcău, E. Bodoki (2022) “Review on combining surface-enhanced Raman spectroscopy and electrochemistry for analytical applications”, Analytica Chimica Acta 1209, 339250, 1-25.
8. **C. M. Muntean**, R. Ştefan, A. Tăbăran, C. Tripon, A. Bende, A. Fălămaş, L. M. Colobăşiu, 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.
9. **C. M. Muntean**, N. E. Dina, I. Bratu, C. Tripon, S. Nițu (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.
- 10. **C. M. Muntean**, N. E. Dina, I. Bratu, A. Fălămaș, S. Nițu (Năstase), A. Halmagyi and A. Coste (2021) “Effects of femtosecond UV laser pulses on the structure and surface dynamics of medicinal plants DNA, monitored by surface-enhanced Raman spectroscopy”, *Journal of Molecular Structure* 1239, 130482.
  - 11. **C. M. Muntean**, N. E. Dina, A. Tăbăran, A. M. R. Gherman, A. Fălămaș, L. E. Olar, L. M. Colobățiu and R. Ștefan (2021) “Identification of *Salmonella* serovars before and after ultraviolet light irradiation by Fourier transform infrared (FT-IR) spectroscopy and chemometrics”, *Analytical Letters* 54(1-2), 150-172.
  - 12. **C. M. Muntean**, N. E. Dina, T.-L. Biter, I. Bratu, M. Coroș, 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).
  - 13. M. Hărța, O. Borsai, **C. M. Muntean**, N. E. Dina, A. Fălămaș, L. E. Olar, K. Szabo, D. Pamfil and R. Ștefan (2020) „Assessment of genetic relationships between *Streptocarpus x hybridus* V. parents and F1 progenies using SRAP markers and FT-IR spectroscopy”, *Plants (Basel)* 9(2), 160.
  - 14. **C. M. Muntean**, N. E. Dina, M. Coroș, N. Toşa, A. I. Turza and M. Dan (2019) “Graphene/silver nanoparticles-based surface-enhanced Raman spectroscopy detection platforms: Application in the study of DNA molecules at low pH”, *Journal of Raman Spectroscopy* 50(12), 1849-1860.
  - 15. **C. M. Muntean**, T.-L. Biter, I. Bratu, N. Toşa (2019) “Metallic surface dynamics of genomic DNA and its nitrogenous bases: SERS assessment and theoretical considerations”, *Journal of Molecular Modeling* 25(6), 162.
  - 16. **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.
  - 17. C. Tripon, **C. M. Muntean**, I. Bratu, K. Nalpantidis, V. Deckert (2017) “(Sub)picosecond processes in DNA and RNA constituents: a Raman spectroscopic assessment”, *Polymer Bulletin* 74, 4087-4100.
  - 18. **C. M. Muntean**, I. Bratu, A. Hernanz (2017) “Vibrational relaxation of the backbone and base modes in LacDNA complexes by UV resonance Raman spectroscopy”, *Journal of Physical Chemistry B* 121(28), 6909-6918.
  - 19. N. E. Dina, **C. M. Muntean**, N. Leopold, A. Fălămas, A. Halmagyi, A. Coste (2016) “Structural changes induced in grapevine (*Vitis vinifera* L.) DNA by femtosecond IR laser pulses: A surface-enhanced Raman spectroscopic study”, *Nanomaterials, Special Issue “DNA-Based Nanotechnology”* 6(6), 96.
  - 20. C. Tripon, **C. M. Muntean**, E. Surducan, I. Bratu, A. Halmagyi, A. Coste (2016) “Structural response of genomic DNA from grapevine (*Vitis vinifera* L.) varieties to microwaves irradiation: a Fourier transform infrared spectroscopy assessment”, *Biomedical Spectroscopy and Imaging* 5(3), 295-312.

21. **C. M. Muntean**, N. Leopold, C. Tripon, A. Coste, A. Halmagyi (2015) “Surface-enhanced Raman spectroscopy of genomic DNA from *in vitro* grown tomato (*Lycopersicon esculentum* Mill.) cultivars before and after plant cryopreservation”, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 144, 107-114.
22. **C. M. Muntean**, I. Bratu, N. Leopold, C. Morari, L. Buimaga-Iarinca, M. A. P. Purcaru (2015) “Subpicosecond surface dynamics in genomic DNA from *in vitro*-grown plant species: A SERS assessment”, Physical Chemistry Chemical Physics 17, 21323-21330.
23. 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  $\text{Ca}^{2+}$  and  $\text{Mn}^{2+}$  ions”, Biomedical Spectroscopy and Imaging 4(2), 189-196.
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25. C. Morari, **C. M. Muntean**, C. Tripon, L. Buimaga-Iarinca, A. Calborean (2014) “DFT investigation of the vibrational properties of GC Watson-Crick and Hoogsteen base pairs in the presence of  $\text{Mg}^{2+}$ ,  $\text{Ca}^{2+}$  and  $\text{Cu}^{2+}$  ions”, Journal of Molecular Modeling 20(4), 2220, 1-7.
26. A. Bende, **C. M. Muntean** (2014) “The influence of anharmonic and solvent effects on the theoretical vibrational spectra of the guanine-cytosine base pairs in Watson-Crick and Hoogsteen configurations”, Journal of Molecular Modeling 20(3), 2113, 1-12.
27. **C. M. Muntean**, A. Lapusan, L. Mihaiu, R. Stefan (2014) “Strain dependent UV degradation of *Escherichia coli* DNA monitored by Fourier transform infrared spectroscopy”, Journal of Photochemistry and Photobiology B: Biology 130, 140-145.
28. **C. M. Muntean**, M. Salehi, S. Niebling, B. Walkenfort (2013) “The influence of divalent metal ions on low pH induced LacDNA structural changes as probed with UV resonance Raman spectroscopy”, Journal of Raman Spectroscopy 44(12), 1693-1699.
29. **C. M. Muntean**, N. Leopold, A. Halmagyi, S. Valimareanu (2013) “Surface-enhanced Raman scattering assessment of DNA from leaf tissues adsorbed on silver colloidal nanoparticles”, Journal of Raman Spectroscopy 44(6), 817-822.
30. **C. M. Muntean**, R. Stefan, M. Bindea, V. Cozma (2013) “Fourier transform infrared spectroscopy of DNA from *Borrelia burgdorferi* sensu lato and *Ixodes ricinus* ticks”, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 110, 185-192.
31. **C. M. Muntean**, I. Bratu, D. Bogdan (2013) “Subpicosecond Processes in Nucleic Acids Bases Monitored by Raman Spectroscopy”, Biomedical Spectroscopy and Imaging 2(1), 37-49.
32. C. Morari, D. Bogdan, **C. M. Muntean** (2012) “Binding effects of  $\text{Mn}^{2+}$  and  $\text{Zn}^{2+}$  ions on the vibrational properties of guanine-cytosine base pairs in the Watson-Crick and Hoogsteen configurations”, Journal of Molecular Modeling 18(11), 4781-4786.
33. **C. M. Muntean**, I. Bratu, N. Leopold, M. A. P. Purcaru (2011) “Subpicosecond dynamics in DNA from leaves of *in vitro*-grown apple plants: A SERS study”, Spectroscopy-Biomedical Applications 26(1), 59-68.

34. **C. M. Muntean**, I. Bratu, N. Leopold (2011) “Molecular relaxation processes in genomic DNA from leaf tissues: A surface-enhanced Raman spectroscopic study”, Spectroscopy-Biomedical Applications 26(4-5), 245-254.
35. **C. M. Muntean**, N. Leopold, A. Halmagyi, S. Valimareanu (2011) “Surface-enhanced Raman spectroscopy of genomic DNA from *in vitro* grown plant species”, Journal of Raman Spectroscopy 42(11), 1925-1931.
36. A. Bende, D. Bogdan, **C. M. Muntean**, C. Morari (2011) “Localization and anharmonicity of the vibrational modes for the GC Watson-Crick and Hoogsteen base pairs”, Journal of Molecular Modeling 17(12), 3265-3274.
37. **C. M. Muntean**, N. Leopold, A. Halmagyi, S. Valimareanu (2011) “Surface-enhanced Raman spectroscopy of DNA from leaves of *in vitro*-grown apple plants”, Journal of Raman Spectroscopy 42(4), 844-850.
38. **C. M. Muntean**, N. Leopold, A. Halmagyi, S. Valimareanu (2011) “Ultrasensitive detection of genomic DNA from apple leaf tissues, using surface-enhanced Raman scattering”, Spectroscopy-An International Journal 25(1), 33-43.
39. **C. M. Muntean**, and I. Bratu (2009) “FT-Raman study of the (sub)picoseconds dynamics in genomic DNA from plant tissues”, Spectroscopy-An International Journal 23(5-6), 281-289.
40. **C. M. Muntean**, I. Bratu, K. Nalpantidis, M. A. P. Purcaru (2009) “Subpicosecond dynamics in calf-thymus DNA, in the presence of  $Zn^{2+}$  ions: a Raman spectroscopic study”, Spectroscopy-An International Journal 23(3-4), 141-154.
41. **C. M. Muntean**, K. Nalpantidis, I. Feldmann and V. Deckert (2009) “ $Zn^{2+}$ -DNA interactions in aqueous systems: a Raman spectroscopic study”, Spectroscopy-An International Journal 23(3-4), 155-163.
42. **C. M. Muntean**, A. Halmagyi, M. D. Puia, and I. Pavel (2009) “FT-Raman signatures of genomic DNA from plant tissues”, Spectroscopy-An International Journal 23(2), 59-70.
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44. **C. M. Muntean**, and I. Bratu (2008) “Molecular relaxation processes in calf-thymus DNA, in the presence of  $Mn^{2+}$  and  $Na^+$  ions: a Raman spectroscopic study”, Spectroscopy-An International Journal 22(5), 345-359.
45. **C. M. Muntean**, and I. Bratu (2007) “Molecular dynamics in calf-thymus DNA, at neutral and low pH, in the presence of  $Na^+$ ,  $Ca^{2+}$  and  $Mg^{2+}$  ions: a Raman microspectroscopic study”, Spectroscopy-An International Journal 21(4), 193-204.
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49. C. I. Morari and **C. M. Muntean** (2003) “Numerical simulations of the Raman spectra of guanine-cytosine Watson-Crick and protonated Hoogsteen base pairs”, *Biopolymers* 72(5), 339-344.
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51. **C. M. Muntean**, G. J. Puppels, J. Greve, G. M. J. Segers-Nolten and S. Cinta Pinzaru (2002) “Raman microspectroscopic study on low pH-induced DNA structural transitions, in the presence of magnesium ions” *J. Raman Spectroscopy* 33(10), 784-788.
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#### **ARTICLES IN OTHER REFEREED JOURNALS**

1. **C. M. Muntean**, I. Bratu, B. Walkenfort, M. Salehi, S. A. Purcaru, A. Hernanz (2020) “Vibrational relaxation of functional groups in dAMP molecules probed with UV resonance Raman spectroscopy”, *Revista de Chimie* (Bucharest), 71(1) 288-297.
2. **C. M. Muntean**, A. Ioachim, D. Moldoveanu (2007) “Microwave Absorption in Chromosomal DNA Molecules”, *Studia Universitatis Babeş-Bolyai, Physica* LII(2), 23-34.
3. **C. M. Muntean**, Andrei Ioachim, Călină Cornea (2005), “Microwave absorption in plasmidic pBR322 DNA molecules”, *Studia Universitatis Babeş-Bolyai, Physica* L(2), 3-10.
4. C. I. Morari and **C. M. Muntean** (2005) “Numerical simulation of the IR spectra of DNA bases”, *Romanian Journal of Physics* 50(9-10), 1151-1156.
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6. **C. M. Muntean**, A. Ioachim, O. Cozar, D. Moldoveanu (2000) “Absorption Properties of DNA in a Microwave Field”, *Studia Universitatis Babes-Bolyai, Physica*, XLV(2), 45-51.
7. **C.M. Muntean**, O. Cozar, G. Banciu, S. Pop (1997) “Microwave Absorption Spectroscopy of DNA Polymers in the Presence of Cu(II) Ions”, *Proceedings Supplement of Balkan Physics Letters* 5, 211-214.

## **BOOKS, BOOK CHAPTER**

### **AUTHOR**

1. **Cristina M. Muntean** (2006) “STRUCTURAL AND DYNAMICAL ASPECTS OF DNA MOLECULE PUT INTO EVIDENCE BY SPECTROSCOPIC METHODS”, Risoprint Publishing House, Cluj-Napoca, Romania, pp. 292 (ISBN: 973-751-217-0, 978-973-751-217-8).
2. **Cristina M. Muntean** (2007) “RAMAN SPECTROSCOPY OF DNA MOLECULE. APPLICATIONS AND PERSPECTIVES”, Risoprint Publishing House, Cluj-Napoca, Romania, pp. 160 (ISBN: 978-973-751-576-6).
3. **Cristina M. Muntean** (2009) “DNA structure at low pH values, in the presence of monovalent and divalent metal ions, as revealed by Raman spectroscopy” Book Chapter in “INSIGHTS INTO VIBRATIONAL SPECTROSCOPY OF NUCLEIC ACIDS AND THEIR COMPLEXES”, Editors **C. M. Muntean** & I. Bratu, Transworld Research Network Publishers, Trivandrum, Kerala, India, p. 67-86 (ISBN: 978-81-7895-407-3).

### **EDITOR**

1. “INSIGHTS INTO VIBRATIONAL SPECTROSCOPY OF NUCLEIC ACIDS AND THEIR COMPLEXES” (2009) Editors **C. M. Muntean** & I. Bratu, Transworld Research Network Publishers, Trivandrum, Kerala, India, pp. 105, ISBN: 978-81-7895-407-3.

### **(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”, 33<sup>rd</sup> Course of International School of Atomic and Molecular Spectroscopy on “Nano-optics: Principles enabling basic research and applications”, July 4<sup>th</sup>-July 19<sup>th</sup>, 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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Manipulation (Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Sicily, Italy, 2-17 July, 2009), Baldassare Di Bartolo & John Collins Eds., Springer, Dordrecht, The Netherlands (2011) p. 413 (ISBN 978-94-007-0028-4).

4. **C. M. Muntean**, I. Bratu (2008) "Molecular dynamics in calf-thymus DNA, at low pH values, in the presence of Mn<sup>2+</sup> ions: a Raman study", in Proceedings of the XXI<sup>st</sup> International Conference on Raman Spectroscopy (ICORS, 17<sup>th</sup>-22<sup>nd</sup> August 2008, London, United Kingdom), Robert Withnall and Babur Z. Chowdhry Chief Eds., IM Publications 2008, Chichester, United Kingdom, p. 886-887 (ISBN 978-1-906715-00-7).
5. **C. M. Muntean**, G. Banciu, O. Cozar, A. Ioachim (1999) "Microwave Response of DNA Polymers with Counterion Distribution", in "Spectroscopy of Biological Molecules: New Directions" (8<sup>th</sup> European Conference on the Spectroscopy of Biological Molecules, 29 August - 2 September 1999, Enschede, The Netherlands), J. Greve, G. J. Puppels and C. Otto Eds., Kluwer Academic Publishers, Dordrecht (1999), The Netherlands, p. 223-224 (ISBN 0-7923-5847-3).
6. **C. M. Muntean**, G. J. Puppels, J. Greve, G. M. J. Segers-Nolten, C. Otto (1999) "Raman Microspectroscopic Study on Low pH-Induced DNA Structural Transitions: 1. Changes in Base Electronic Structures and Base Pairing", in "Spectroscopy of Biological Molecules: New Directions" (8<sup>th</sup> European Conference on the Spectroscopy of Biological Molecules, 29 August - 2 September 1999, Enschede, The Netherlands), J. Greve, G. J. Puppels and C. Otto Eds., Kluwer Academic Publishers, Dordrecht (1999), The Netherlands, p. 221-222 (ISBN 0-7923-5847-3).
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8. **Cristina Muntean**, A. Ioachim, O. Petrean, "Evaluation of Microwave Absorption in DNA - Hydration Layer Systems", 6<sup>th</sup> European Conference on the Spectroscopy of Biological Molecules Proc. (3-8 September 1995, Villeneuve d'Ascq, France) J. C. Merlin, S. Turrell and J. P. Huvenne Eds., Kluwer Academic Publishers, Dordrecht (1995), The Netherlands, p. 333-334 (ISBN 0-7923-3628-3).
9. **Cristina Muntean**, N. Aldea, Monica Purcaru, "Dynamical Properties of DNA in a Microwave Field" in 5<sup>th</sup> International Conference on the Spectroscopy of Biological Molecules Proc., T. Theophanides, Jane Anastassopoulou, N. Fotopoulos Eds., Kluwer Academic Publishers, Dordrecht, The Netherlands (1993), p. 73-74 (ISBN 0-7923-2534-6).
10. **Cristina Muntean**, A. Ioachim, Calina Cornea, "Microwave Absorption in Plasmidic DNA Molecules" in 5<sup>th</sup> International Conference on the Spectroscopy of Biological Molecules Proc., T. Theophanides, Jane Anastassopoulou, N. Fotopoulos Eds., Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993, p. 71-72 (ISBN 0-7923-2534-6).