

# Cristina M Muntean

## List of Publications by Year in descending order

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38  
papers

297  
citations

933447

10  
h-index

996975

15  
g-index

38  
all docs

38  
docs citations

38  
times ranked

263  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA structure at low pH values, in the presence of Mn <sup>2+</sup> ions: a Raman study. Journal of Raman Spectroscopy, 2005, 36, 1047-1051.	2.5	37
2	Surface-enhanced Raman spectroscopy of DNA from leaves of <i>in vitro</i> grown apple plants. Journal of Raman Spectroscopy, 2011, 42, 844-850.	2.5	22
3	FT-Raman signatures of genomic DNA from plant tissues. Spectroscopy, 2009, 23, 59-70.	0.8	19
4	Mn <sup>2+</sup> -DNA interactions in aqueous systems: A Raman spectroscopic study. Spectroscopy, 2006, 20, 29-35.	0.8	18
5	Zn <sup>2+</sup> -DNA interactions in aqueous systems: A Raman spectroscopic study. Spectroscopy, 2009, 23, 155-163.	0.8	16
6	Surface-enhanced Raman spectroscopy of genomic DNA from <i>in vitro</i> grown tomato ( <i>Lycopersicon</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Molecular and Biomolecular Spectroscopy, 2015, 144, 107-114.	3.9	16
7	Fourier transform infrared spectroscopy of DNA from <i>Borrelia burgdorferi sensu lato</i> and <i>Ixodes ricinus</i> ticks. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 185-192.	3.9	12
8	Strain dependent UV degradation of <i>Escherichia coli</i> DNA monitored by Fourier transform infrared spectroscopy. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 140-145.	3.8	12
9	UV degradation of genomic DNA from <i>in vitro</i> grown plant species: A Fourier transform infrared spectroscopic assessment. Polymer Degradation and Stability, 2014, 108, 35-40.	5.8	11
10	Graphene/silver nanoparticles-based surface-enhanced Raman spectroscopy detection platforms: Application in the study of DNA molecules at low pH. Journal of Raman Spectroscopy, 2019, 50, 1849-1860.	2.5	10
11	The Influence of Mn <sup>2+</sup> on DNA structure in the presence of Na <sup>+</sup> ions: A Raman spectroscopic study. Spectroscopy, 2006, 20, 261-268.	0.8	9
12	Structural Changes Induced in Grapevine ( <i>Vitis vinifera</i> L.) DNA by Femtosecond IR Laser Pulses: A Surface-Enhanced Raman Spectroscopic Study. Nanomaterials, 2016, 6, 96.	4.1	9
13	Subpicosecond surface dynamics in genomic DNA from <i>in vitro</i> -grown plant species: a SERS assessment. Physical Chemistry Chemical Physics, 2015, 17, 21323-21330.	2.8	8
14	Localization and anharmonicity of the vibrational modes for GC Watson-Crick and Hoogsteen base pairs. Journal of Molecular Modeling, 2011, 17, 3265-3274.	1.8	7
15	Raman spectroscopic study on the subpicosecond dynamics in calf-thymus DNA, upon lowering the pH and in the presence of Mn <sup>2+</sup> ions. Spectroscopy, 2008, 22, 475-489.	0.8	6
16	The influence of divalent metal ions on low pH induced LacDNA structural changes as probed with UV resonance Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 1693-1699.	2.5	6
17	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, 2014, 20, 2113.	1.8	6
18	Vibrational Relaxation of the Backbone and Base Modes in LacDNA Complexes by UV Resonance Raman Spectroscopy. Journal of Physical Chemistry B, 2017, 121, 6909-6918.	2.6	6

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19	Molecular dynamics in calf-thymus DNA, at neutral and low pH, in the presence of Na <sup>+</sup> , Ca <sup>2+</sup> and Mg <sup>2+</sup> ions: A Raman microspectroscopic study. <i>Spectroscopy</i> , 2007, 21, 193-204.	0.8	5
20	Subpicosecond dynamics in DNA from leaves of in vitro-grown apple plants: A SERS study. <i>Spectroscopy</i> , 2011, 26, 59-68.	0.8	5
21	Assessment of Genetic Relationships between <i>Streptocarpus x hybridus</i> V. Parents and F1 Progenies Using SRAP Markers and FT-IR Spectroscopy. <i>Plants</i> , 2020, 9, 160.	3.5	5
22	The Influence of UV Femtosecond Laser Pulses on Bacterial DNA Structure, as Proved by Fourier Transform Infrared (FT-IR) Spectroscopy. <i>ChemistrySelect</i> , 2021, 6, 6957-6972.	1.5	5
23	Molecular relaxation processes in calf-thymus DNA, in the presence of Mn <sup>2+</sup> and Na <sup>+</sup> ions: A Raman spectroscopic study. <i>Spectroscopy</i> , 2008, 22, 345-359.	0.8	4
24	Ultrasensitive detection of genomic DNA from apple leaf tissues, using surface-enhanced Raman scattering. <i>Spectroscopy</i> , 2011, 25, 33-43.	0.8	4
25	Binding effects of Mn <sup>2+</sup> and Zn <sup>2+</sup> ions on the vibrational properties of guanine-cytosine base pairs in the Watson-Crick and Hoogsteen configurations. <i>Journal of Molecular Modeling</i> , 2012, 18, 4781-4786.	1.8	4
26	DFT investigation of the vibrational properties of GC Watson-Crick and Hoogsteen base pairs in the presence of Mg <sup>2+</sup> , Ca <sup>2+</sup> , and Cu <sup>2+</sup> ions. <i>Journal of Molecular Modeling</i> , 2014, 20, 2220.	1.8	4
27	(Sub)picosecond processes in DNA and RNA constituents: a Raman spectroscopic assessment. <i>Polymer Bulletin</i> , 2017, 74, 4087-4100.	3.3	4
28	Metallic surface dynamics of genomic DNA and its nitrogenous bases: SERS assessment and theoretical considerations. <i>Journal of Molecular Modeling</i> , 2019, 25, 162.	1.8	4
29	Subpicosecond dynamics in calf-thymus DNA, in the presence of Zn <sup>2+</sup> ions: A Raman spectroscopic study. <i>Spectroscopy</i> , 2009, 23, 141-154.	0.8	3
30	Effects of Femtosecond UV Laser Pulses on the Structure and Surface Dynamics of Medicinal Plants DNA, Monitored by Surface-Enhanced Raman Spectroscopy. <i>Journal of Molecular Structure</i> , 2021, 1239, 130482.	3.6	3
31	Structure and surface dynamics of genomic DNA as probed with surface-enhanced Raman spectroscopy: Trace level sensing of nucleic acids extracted from plants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, , 121477.	3.9	3
32	FT-Raman study of the (sub)picosecond dynamics in genomic DNA from plant tissues. <i>Spectroscopy</i> , 2009, 23, 281-289.	0.8	2
33	Molecular relaxation processes in genomic DNA from leaf tissues: A surface-enhanced Raman spectroscopic study. <i>Spectroscopy</i> , 2011, 26, 245-254.	0.8	2
34	Subpicosecond processes in nucleic acids bases monitored by Raman spectroscopy. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 37-49.	1.2	2
35	Structural response of genomic DNA from grapevine ( <i>Vitis vinifera</i> L.) varieties to microwaves irradiation: A Fourier transform infrared spectroscopy assessment. <i>Biomedical Spectroscopy and Imaging</i> , 2016, 5, 295-312.	1.2	2
36	Surface dynamics of genomic DNAs upon lowering the pH, in the presence of graphene/AgNPs-based SERS detection platform. <i>Journal of Molecular Modeling</i> , 2020, 26, 211.	1.8	2

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37	Identification of <i>Salmonella</i> Serovars before and after Ultraviolet Light Irradiation by Fourier Transform Infrared (FT-IR) Spectroscopy and Chemometrics. <i>Analytical Letters</i> , 2021, 54, 150-172.	1.8	2
38	Acidic pH-responsive changes of DNA structure and surface dynamics as probed with ultrasensitive Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 258, 119866.	3.9	2