Cristina M Muntean

List of Publications by Year
in descending order

38	297	933447 10	996975 15
papers	citations	h-index	g-index

38	38	38	263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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, 2022, , 121477.	3.9	3
2	Identification of Salmonella Serovars before and after Ultraviolet Light Irradiation by Fourier Transform Infrared (FT-IR) Spectroscopy and Chemometrics. Analytical Letters, 2021, 54, 150-172.	1.8	2
3	The Influence of UV Femtosecond Laser Pulses on Bacterial DNA Structure, as Proved by Fourier Transform Infrared (FTâ€IR) Spectroscopy. ChemistrySelect, 2021, 6, 6957-6972.	1.5	5
4	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, 2021, 1239, 130482.	3.6	3
5	Acidic pH-responsive changes of DNA structure and surface dynamics as probed with ultrasensitive Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 258, 119866.	3.9	2
6	Surface dynamics of genomic DNAs upon lowering the pH, in the presence of graphene/AgNPs-based SERS detection platform. Journal of Molecular Modeling, 2020, 26, 211.	1.8	2
7	Assessment of Genetic Relationships between Streptocarpus x hybridus V. Parents and F1 Progenies Using SRAP Markers and FT-IR Spectroscopy. Plants, 2020, 9, 160.	3.5	5
8	Graphene/silver nanoparticlesâ€based surfaceâ€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
9	Metallic surface dynamics of genomic DNA and its nitrogenous bases: SERS assessment and theoretical considerations. Journal of Molecular Modeling, 2019, 25, 162.	1.8	4
10	(Sub)picosecond processes in DNA and RNA constituents: a Raman spectroscopic assessment. Polymer Bulletin, 2017, 74, 4087-4100.	3.3	4
11	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
12	Structural Changes Induced in Grapevine (Vitis vinifera L.) DNA by Femtosecond IR Laser Pulses: A Surface-Enhanced Raman Spectroscopic Study. Nanomaterials, 2016, 6, 96.	4.1	9
13	Structural response of genomic DNA from grapevine (Vitis vinifera L.) varieties to microwaves irradiation: A Fourier transform infrared spectroscopy assessment. Biomedical Spectroscopy and Imaging, 2016, 5, 295-312.	1.2	2
14	Subpicosecond surface dynamics in genomic DNA from in vitro-grown plant species: a SERS assessment. Physical Chemistry Chemical Physics, 2015, 17, 21323-21330.	2.8	8
15	Surface-enhanced Raman spectroscopy of genomic DNA from in vitro grown tomato (Lycopersicon) Tj ETQq1 1 0.784314 rgBT /Overl Molecular and Biomolecular Spectroscopy, 2015, 144, 107-114.	3.9	16
16	The influence of anharmonic and solvent effects on the theoretical vibrational spectra of the guanineâ€“cytosine base pairs in Watsonâ€“Crick and Hoogsteen configurations. Journal of Molecular Modeling, 2014, 20, 2113.	1.8	6
17	Strain dependent UV degradation of Escherichia coli DNA monitored by Fourier transform infrared spectroscopy. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 140-145.	3.8	12
18	DFT investigation of the vibrational properties of GC Watson-Crick and Hoogsteen base pairs in the presence of Mg2+, Ca2+, and Cu2+ ions. Journal of Molecular Modeling, 2014, 20, 2220.	1.8	4

#	Article	IF	Citations
19	UV degradation of genomic DNA from inÂvitro grown plant species: A Fourier transform infrared spectroscopic assessment. Polymer Degradation and Stability, 2014, 108, 35-40.	5.8	11
20	Fourier transform infrared spectroscopy of DNA from Borrelia burgdorferi sensu lato and Ixodes ricinus ticks. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 185-192.	3.9	12
21	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
22	Subpicosecond processes in nucleic acids bases monitored by Raman spectroscopy. Biomedical Spectroscopy and Imaging, 2013, 2, 37-49.	1.2	2
23	Binding effects of Mn2+ and Zn2+ ions on the vibrational properties of guanine-cytosine base pairs in the Watson-Crick and Hoogsteen configurations. Journal of Molecular Modeling, 2012, 18, 4781-4786.	1.8	4
24	Subpicosecond dynamics in DNA from leaves ofin vitro-grown apple plants: A SERS study. Spectroscopy, 2011, 26, 59-68.	0.8	5
25	Molecular relaxation processes in genomic DNA from leaf tissues: A surface-enhanced Raman spectroscopic study. Spectroscopy, 2011, 26, 245-254.	0.8	2
26	Ultrasensitive detection of genomic DNA from apple leaf tissues, using surface-enhanced Raman scattering. Spectroscopy, 2011, 25, 33-43.	0.8	4
27	Localization and anharmonicity of the vibrational modes for GC Watsonâ€“Crick and Hoogsteen base pairs. Journal of Molecular Modeling, 2011, 17, 3265-3274.	1.8	7
28	Surfaceâ€enhanced Raman spectroscopy of DNA from leaves of in vitro grown apple plants. Journal of Raman Spectroscopy, 2011, 42, 844-850.	2.5	22
29	FT-Raman signatures of genomic DNA from plant tissues. Spectroscopy, 2009, 23, 59-70.	0.8	19
30	FT-Raman study of the (sub)picosecond dynamics in genomic DNA from plant tissues. Spectroscopy, 2009, 23, 281-289.	0.8	2
31	Subpicosecond dynamics in calf-thymus DNA, in the presence of Zn²⁺ions: A Raman spectroscopic study. Spectroscopy, 2009, 23, 141-154.	0.8	3
32	Zn²⁺â€“DNA interactions in aqueous systems: A Raman spectroscopic study. Spectroscopy, 2009, 23, 155-163.	0.8	16
33	Raman spectroscopic study on the subpicosecond dynamics in calf-thymus DNA, upon lowering the pH and in the presence of Mn²⁺ions. Spectroscopy, 2008, 22, 475-489.	0.8	6
34	Molecular relaxation processes in calf-thymus DNA, in the presence of Mn²⁺and Na⁺ions: A Raman spectroscopic study. Spectroscopy, 2008, 22, 345-359.	0.8	4
35	Molecular dynamics in calf-thymus DNA, at neutral and low pH, in the presence of Na⁺, Ca²⁺and Mg²⁺ions: A Raman microspectroscopic study. Spectroscopy, 2007, 21, 193-204.	0.8	5
36	Mn2+â€“DNA interactions in aqueous systems: A Raman spectroscopic study. Spectroscopy, 2006, 20, 29-35.	0.8	18

#	Article	IF	Citations
37	The Influence of Mn2+on DNA structure in the presence of Na+ions: A Raman spectroscopic study. Spectroscopy, 2006, 20, 261-268.	0.8	9
38	DNA structure at low pH values, in the presence of Mn2+ ions: a Raman study. Journal of Raman Spectroscopy, 2005, 36, 1047-1051.	2.5	37