

## LIST OF PUBLICATIONS

1. *"Finding specific spectral features for surface-enhanced Raman response of Enterococcus faecalis assisted by multivariate analysis when using common silver sols"*, Laurențiu STĂNCIOIU, Ana Maria Raluca GHERMAN, Nicoleta Elena DINA, Rom. Rep. Phys., article in press
2. *"Fuzzy characterization and classification of bacteria species detected at single-cell level by surface-enhanced Raman scattering"*, Nicoleta Elena DINA, Ana Maria Raluca GHERMAN, Alia COLNIȚĂ, Daniel MARCONI, Costel SÂRBU, Spectrochim. Acta, Part A, 2021, 247, 119149, DOI: 10.1016/j.saa.2020.119149
3. *"Microfluidic portable device for pathogens' rapid SERS detection"*, Nicoleta Elena DINA, Daniel MARCONI, Alia COLNIȚĂ, Ana Maria Raluca GHERMAN, The 1<sup>st</sup> International Electronic Conference on Biosensors (online), Session Microfluidics for biosensing, Proceedings, 2020, 60 (1), 2, DOI: 10.3390/IECB2020-07089 – conference paper
4. *"Identification of Salmonella serovars before and after ultraviolet light irradiation by Fourier Transform Infrared (FT-IR) Spectroscopy and Chemometrics"*, Cristina M. MUNTEAN, Nicoleta Elena DINA, Alexandra TĂBĂRAN, Ana Maria Raluca GHERMAN, Alexandra FĂLĂMAȘ, Loredana E. OLAR, Liora M. COLOBĂȚIU, Răzvan ȘTEFAN, Anal. Letters, 2021, 54 (1-2), 150-172, DOI: 10.1080/00032719.2020.1731524 – conference paper
5. *"Structural, spectroscopic and theoretical studies of sodium (2-carbamoylphenoxy) acetate salt"*, Alexandru TURZA, Ana Maria Raluca GHERMAN, Vasile CHIȘ, Camelia BERGHIAN-GROSAN, Gheorghe BORODI, J. Mol. Struct., 2020, 1200, 127016, DOI: 10.1016/j.molstruc.2019.127016
6. *"New aspects towards a molecular understanding of the allicin immunostimulatory mechanism via Colec12, MARCO, and SCARB1 receptors"*, Vlad Al. TOMA, Adrian Bogdan TIGU, Anca D. FARCAȘ, Bogdan SEVASTRE, Marian TAULESCU, Ana Maria Raluca GHERMAN, Ioana ROMAN, Eva FISCHER-FODOR, Marcel PÂRVU, Int. J. Mol. Sci., 2019, 20 (15), 3627, DOI: 10.3390/ijms20153627
7. *"Yeast cell wall – silver nanoparticles interaction: A synergistic approach between surface enhanced Raman scattering and computational spectroscopy tools"*, Ana Maria Raluca GHERMAN, Nicoleta Elena DINA, Vasile CHIȘ, Andreas Wieser, Christoph HAISCH, Spectrochim. Acta, Part A, 2019, 222, 117223, DOI: 10.1016/j.saa.2019.117223
8. *"Size-tunable Au@Ag nanoparticles for colorimetric and SERS dual-mode sensing of palmatine in traditional Chinese medicine"*, Yaohui GAO, Ziwei HU, Jiamin WU, Zan NING, Jingyi JIAN, Ting ZHAO, Xiaochen LIANG, Xiangjie YANG, Zi YANG, Qinyu ZHAO, Jianping WANG, Zhigang WANG, Nicoleta Elena DINA, Ana Maria Raluca GHERMAN, Zhengjin JIANG, Haibo ZHOU, J. Pharm. Biomed. Anal., 2019, 174, 123-133, DOI: 10.1016/j.jpba.2019.05.045
9. *"Label-free detection of bacteria using Surface-Enhanced Raman Scattering and Principal Component Analysis"*, Ionuț Bogdan COZAR, Alia COLNIȚĂ, Tiberiu SZÖKE-NAGY, Ana Maria Raluca GHERMAN, Nicoleta Elena DINA, Anal. Letters, 2019, 52 (1), Special Issue, DOI: 10.1080/00032719.2018.1445747 – conference paper

10. "Characterization of clinically relevant fungi via SERS Fingerprinting assisted by novel chemometric models", Nicoleta Elena DINA, Ana Maria Raluca GHERMAN, Vasile CHIȘ, Costel SÂRBU, Andreas WIESER, David BAUER, Christoph HAISCH, Anal. Chem., 2018, 90 (4), 2484-2492, DOI: 10.1021/acs.analchem.7b03124

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10 (ten) articles published in ISI journals

2 (two) of which as first author

3 (three) of which as conference papers

29 times cited (without self citations)