

## LIST OF PUBLICATIONS

1. “Structural comparison between polydopamine precipitate and thin coating layers, down to nanometer film thickness”, Xenia FILIP, Andrea SIMION, Ioana-Georgeta GROSU, Ana Maria Raluca GHERMAN, Claudia LAR, Claudiu FILIP, **Applied Surface Science**, 649, **2024**, 159190, <http://doi.org/10.1016/j.apsusc.2023.159190> (IF<sub>2022</sub>: 6.7; AIS<sub>2023</sub>: 0.867)
2. “Detection and characterization of nodularin by using label-free surface-enhanced spectroscopic techniques”, Ioana Andreea BREZEȘTEAN, Ana Maria Raluca GHERMAN, Alia COLNIȚĂ, Nicoleta Elena DINA, Csilla MÜLLER MOLNÁR, Daniel MARCONI, Vasile CHIȘ, Ioan-Leontin DAVID, Simona CÎNTĂ-PÎNZARU, **International Journal of Molecular Sciences**, **2022**, 23 (24), 15741, <http://doi.org/10.3390/ijms232415741> (IF<sub>2022</sub>: 5.6; AIS<sub>2022</sub>: 1.030) (2 times cited)
3. “Cheminformatics study on structural and bactericidal activity of latest generation  $\beta$ -lactams on widespread pathogens”, Ana Maria Raluca GHERMAN, Nicoleta Elena DINA, Vasile CHIȘ, **International Journal of Molecular Sciences**, **2022**, 23 (20), 12685, <http://doi.org/10.3390/ijms232012685> (IF<sub>2021</sub>: 5.6; AIS<sub>2021</sub>: 1.030)
4. “Vibrational spectral analysis of Sorafenib and its molecular docking study compared to other TKIs”, Laurențiu STĂNCIOIU, Ana Maria Raluca GHERMAN, Ioana BREZEȘTEAN, Nicoleta Elena DINA, **Journal of Molecular Structure**, **2022**, 1248, 131507, <http://doi.org/10.1016/j.molstruc.2021.131507> (IF<sub>2022</sub>: 3.8; AIS<sub>2022</sub>: 0.331) (2 times cited)
5. “Spectroscopic investigation of exopolysaccharides purified from *Arthrospira plantensis* cultures as potential bioresources”, Ioana BREZEȘTEAN, Maricel BOCĂNEALĂ, Ana Maria Raluca GHERMAN, Sebastian Alin PORAV, Irina KACSÓ, Elena Rakosy-Tican, Nicoleta Elena DINA, **Journal of Molecular Structure**, **2021**, 1246, 131228, <http://doi.org/10.1016/j.molstruc.2021.131228> (IF<sub>2021</sub>: 3.841; AIS<sub>2021</sub>: 0.315) (3 time cited)
6. “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, **Romanian Reports in Physics**, **2021**, 73, 4, 604, <https://rrp.nipne.ro/2021/AN73604.pdf> (IF<sub>2021</sub>: 2.085; AIS<sub>2021</sub>: 0.202)
7. “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, **Spectrochimica Acta, Part A**, **2021**, 247, 119149, <http://doi.org/10.1016/j.saa.2020.119149> (IF<sub>2021</sub>: 4.831; AIS<sub>2021</sub>: 0.491) (10 times cited)
8. “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, <http://doi.org/10.3390/IECB2020-07089> (5 times cited) – conference paper nonISI
9. “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, **Analytical Letters**, 2021, 54 (1-2), 150-172, <http://doi.org/10.1080/00032719.2020.1731524> (IF<sub>2021</sub>: 2.267; AIS<sub>2021</sub>: 0.203) (4 times cited) – conference paper

10. “Structural, spectroscopic and theoretical studies of sodium (2-carbamoylphenoxy) acetate salt”, Alexandru TURZA, Ana Maria Raluca GHERMAN, Vasile CHIȘ, Camelia BERGHIAN-GROSAN, Gheorghe BORODI, **Journal of Molecular Structure**, 2020, 1200, 127016, <http://doi.org/10.1016/j.molstruc.2019.127016> (IF<sub>2020</sub>: 3.196; AIS<sub>2020</sub>: 0.293)
11. “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, **International Journal of Molecular Sciences**, 2019, 20 (15), 3627, <http://doi.org/10.3390/ijms20153627> (IF<sub>2019</sub>: 4.556; AIS<sub>2019</sub>: 0.943) (11 times cited)
12. “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, **Spectrochimica Acta, Part A**, 2019, 222, 117223, <http://doi.org/10.1016/j.saa.2019.117223> (IF<sub>2019</sub>: 3.232; AIS<sub>2019</sub>: 0.410) (10 times cited)
13. “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, **Journal of Pharmaceutical and Biomedical Analysis**, 2019, 174, 123-133, <http://doi.org/10.1016/j.jpba.2019.05.045> (IF<sub>2019</sub>: 3.209; AIS<sub>2019</sub>: 0.589) (22 times cited)
14. “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, **Analytical Letters**, 2019, 52 (1), Special Issue, <http://doi.org/10.1080/00032719.2018.1445747> (IF<sub>2019</sub>: 1.467; AIS<sub>2019</sub>: 0.201) (8 times cited) – conference paper
15. “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, **Analytical Chemistry**, 2018, 90 (4), 2484-2492, <http://doi.org/10.1021/acs.analchem.7b03124> (IF<sub>2018</sub>: 6.350; AIS<sub>2018</sub>: 1.348) (34 times cited)

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