

Lista de lucrări

1. **SERS liquid biopsy: An emerging tool for medical diagnosis**, V Moisoiu*, **SD Iancu***, A Stefancu*, T Moisoiu, B Pardini, MP Dragomir, N Crisan, L Avram, D Crisan, I Andras, D Fodor, LF Leopold, C Socaciu, Z Bálint, C Tomuleasa, F Elec, N Leopold, *Colloids and Surfaces B: Biointerfaces*, 208, 2021, 112064. (IF 5.268, Rank Q1 (BIOPHYSICS) AIS 0.707)
2. **Combined miRNA and SERS urine liquid biopsy for the point-of-care diagnosis and molecular stratification of bladder cancer** T Moisoiu*, MP Dragomir*, **SD Iancu***, S Schallenberg, G Birolo, G Ferrero, D Burghilea, A Stefancu, RG Cozan, E Licarete, A Allione, G Matullo, G Iacob, Z Bálint, RI Badea, A Naccarati, D Horst, B Pardini, N Leopold, F Elec, *Molecular Medicine* 2022, 28 (1). (IF 6.354, Rank Q1 (BIOCHEMISTRY & MOLECULAR BIOLOGY) AIS 1.220)
3. **SERS liquid biopsy in breast cancer. What can we learn from SERS on serum and urine?** **SD Iancu**, RG Cozan, A Stefancu, M David, T Moisoiu, C Moroz-Dubenco, A Bacjsi, C Chira, A Andreica, L Diosan, N Leopold, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 2022;273:120992. (IF 4.098, Rank Q1 (SPECTROSCOPY) AIS 0.491)
4. **SERS-based DNA methylation profiling allows the differential diagnosis of malignant lymphadenopathy** A Stefancu, V Moisoiu, M Desmirean, **SD Iancu**, AB Tigu, B Petrushev, A Jurj, RG Cozan, L Budisan, B Fetica, A Roman, G Dobie, C Turcas, M Zdrenghea, P Teodorescu, S Pasca, D Picu, D Dima, Z Balint, N Leopold, C Tomuleasa, *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy* 2022, 264. (IF 4.098, Rank Q1 (SPECTROSCOPY) AIS 0.491)
5. **Selective Single Molecule SERRS of Cationic and Anionic Dyes by Cl-and Mg²⁺-Adions: An Old New Idea** A Stefancu, **SD Iancu**, N Leopold, *Journal of Physical Chemistry C* 2021, 125, 12802-12810. (IF 3.7, Rank Q2 (CHEMISTRY, PHYSICAL – SCIE) AIS 0.857)
6. **SERS-Based Evaluation of the DNA Methylation Pattern Associated With Progression in Clonal Leukemogenesis of Down Syndrome** V Moisoiu, V Sas, A Stefancu, **SD Iancu**, A Jurj, S Pasca, S Iluta, AA Zimta, AB Tigu, P Teodorescu, C Turcas, C Blag, D Dima, G Popa, S Arghirescu, S Man, A Colita, N Leopold, C Tomuleasa, *Frontiers in Bioengineering and Biotechnology* 2021, 9. (IF 5.7, Rank Q2 (MULTIDISCIPLINARY SCIENCES - SCIE) AIS 0.999)
7. **Assessment of gold-coated iron oxide nanoparticles as negative T2 contrast agent in small animal MRI studies** **SD Iancu**, C Albu, L Chiriac, R Moldovan, A Stefancu, V Moisoiu, V Coman, L Szabo, N Leopold, Z Bálint, *International journal of nanomedicine* 2020, 15, 4811-4824. (IF 7.03, Rank Q2 (NANOSCIENCE & NANOTECHNOLOGY - SCIE) AIS 0.919)

8. **SERS-based liquid biopsy of gastrointestinal tumors using a portable raman device operating in a clinical environment** L Avram*, **SD Iancu***, A Stefanu, V Moisoiu, A Colnita, D Marconi, V Donca, E Buzdugan, R Craciun, N Leopold, N Crisan, I Coman, D Crisan, Journal of Clinical Medicine 2020, 9. (IF 3.3)
9. **SERS assessment of the cancer-specific methylation pattern of genomic DNA: towards the detection of acute myeloid leukemia in patients undergoing hematopoietic stem cell transplantation** V Moisoiu, A Stefanu, **SD Iancu**, T Moisoiu, L Loga, L Dican, CD Alecsa, I Boros, A Jurj, D Dima, C Bagacean, R Tetean, E Burzo, C Tomuleasa, F Elec, N Leopold, Analytical and bioanalytical chemistry 2019, 411, 7907-7913. (IF 4.3, Rank Q1 (CHEMISTRY, ANALYTICAL) AIS 0.721)
10. **The role of Ag⁺, Ca²⁺, Pb²⁺ and Al³⁺ adions in the SERS turn-on effect of anionic analytes** **SD Iancu**, A Stefanu, V Moisoiu, LF Leopold, N Leopold, Beilstein journal of nanotechnology 2019, 10, 2338-2345. (IF 3.65, Rank Q2 (PHYSICS, APPLIED) AIS 0.62)

Teza de doctorat

Machine learning analysis of biofluid SERS data for clinical applications, 2023 Universitatea Babeş-Bolyai, coordonator prof. dr. Nicolae Leopold

Brevete

1. **Iancu Stefania**, Moisoiu Vlad, Stefanu Andrei, Leopold Nicolae, Szabo Laszlo, Balint Zoltan, Procedeu de obținere de nanoparticule cu miez de magnetită și înveliș de aur stabilizate cu glucoză, RO134304 (A0) — 2020-07-30
2. Leopold Loredana Florina, Coman Cristina, **Iancu Stefania Dana**, Stefanu Andrei, Leopold Nicolae, Procedeu de detecție a nanoparticulelor de TiO₂, ZnO și Ag în matricea vegetală prin microscopie în câmp întunecat cuplată cu imagistică hiperspectrală(vis-nir), RO135854 (A2) — 2022-06-30