

Listă publicații:

Articole indexate ISI:

- Y. Gao, Z. Hu, ..., N.E. Dina, A.M.R. Gherman, Z. Jiang, H. Zhou „Size-tunable Au@Ag nanoparticles for colorimetric and SERS dual-mode sensing of palmatine in traditional Chinese medicine”, Journal of Pharmaceutical and Biomedical Analysis, 2019, (IF 2.831) *in press*;
- C.M. Muntean, N.E. Dina, M. Coroș, N. Toșa, A.I. Turza, M. Dan „Graphene/AgNps based SERS detection platforms. application in the study of DNA molecules at low pH, Journal of Raman Spectroscopy, 2019, *in press*;
- A.M.R. Gherman, N.E. Dina, V. Chiș, A. Wieser, C. Haisch „Yeast cell wall - silver nanoparticles interaction: a synergistic approach between Surface-Enhanced Raman Scattering and computational spectroscopy tools”, Spectrochimica Acta A, 2019, (IF 2.88) *in press*;
- D. Yang, H. Zhou, N.E. Dina, C. Haisch „Portable bacteria-capturing chip for direct surface-enhanced Raman scattering identification of urinary tract infection pathogens”, Royal Society Open Science, 5, 9, 2018, 180955 (IF 2.504);
- N.E. Dina, A.M.R. Gherman, V. Chiș, C. Sârbu, D. Bauer, A. Wieser, C. Haisch „Characterization of Clinically Relevant Fungi via SERS Fingerprinting Assisted by Novel Chemometric Models”, Analytical Chemistry, 90, 4, 2018, 2484-2492 (IF 6.042);
- T. Szöke-Nagy, A.S. Porav, C. Coman, I.B. Cozar, N.E. Dina, C. Tripon „Characterization of the Action of Antibiotics and Essential Oils against Bacteria by Surface-Enhanced Raman Spectroscopy and Scanning Electron Microscopy”, Analytical Letters, 7 Mai 2018, (IF 1.206);
- I.B. Cozar, A. Colniță, T. Szoke-Nagy, A.M.R. Gherman, N.E. Dina, „Label-Free Detection of Bacteria using Surface-Enhanced Raman Scattering and Principal Component Analysis”, Analytical Letters, 7 Mai 2018, (IF 1.206);
- A.C. Moț, C. Bischin, G. Damian, A. Amr, E. Gal, N.E. Dina, N. Leopold, R. Silaghi-Dumitrescu „Fe(III) – sulfide interaction in globins: characterization and quest for a putative Fe(IV)-sulfide species”, Journal of Inorganic Biochemistry, 179, 2018, 32-39 (IF 3.348);
- A.C. Moț, M. Pârvu, A.E. Pârvu, O. Roșca-Casian, N.E. Dina, N. Leopold, R. Silaghi-Dumitrescu, C. Mircea “Reversible naftifine-induced carotenoid depigmentation in *Rhodotorula mucilaginosa* (A. Jörg.) F.C. Harrison causing onychomycosis”, Scientific Reports (Nature), 7, 1, 2017, 11125 (IF 4.259);
- A. Colniță, N.E. Dina, N. Leopold, D.C. Vodnar, D. Bogdan, A.S. Porav, L. David “Characterization and discrimination of Gram-positive bacteria using Raman spectroscopy with the aid of principal component analysis”, Nanomaterials (Basel), 7, 9, 2017, E248 (IF 3.553);
- N.E. Dina, A. Leș, A. Baricz, T. Szöke-Nagy, N. Leopold, C. Sârbu, H.L. Banciu „Discrimination of haloarchaeal genera using Raman spectroscopy and robust methods for multivariate data analysis”, Journal of Raman Spectroscopy, 48, 8, 2017, 1122–1126 (IF 2.969);
- N.E. Dina, A. Colniță, T. Szöke-Nagy, A.S. Porav „A critical review on ultrasensitive, spectroscopic-based methods for high-throughput monitoring of bacteria during infection treatment”, Critical Reviews in Analytical Chemistry, 47, 6, 2017, 499-512 (IF 4.00);
- N.E. Dina, H. Zhou, A. Colniță, N. Leopold, T. Szöke-Nagy, C. Coman, C. Haisch “Rapid single-cell detection and identification of pathogens by using surface-enhanced Raman spectroscopy”, Analyst, 142, 2017, 1782-1789 (IF 3.885);
- N.E. Dina, C.M. Muntean, N. Leopold, A. Fălămaș, A. Halmagyi, A. Coste, “Structural Changes Induced in Grapevine (*Vitis vinifera* L.) DNA by Femtosecond IR Laser Pulses: A Surface-Enhanced Raman Spectroscopic Study”, Nanomaterials, special Issue – DNA-based Nanotechnologies, 6, 6, 2016, Article Number: 96 (IF 3.553);
- B. El Bali, M. Lachkar, R. Essehli, M. Dusek, J. Rohlicek, N. Mircescu, C. Haisch, „NaCo(H₂PO₂)₃: Crystal structure and physical study”, Journal of Molecular Structure, 1123, 2016, 30-34 (IF 1.78);
- H. Zhou, D. Yang, N.P. Ivleva, N.E. Mircescu, S. Schubert, R. Niessner, A. Wieser, C. Haisch, “Label-free in situ discrimination of live and dead bacteria by surface-enhanced Raman scattering”, Analytical Chemistry, 87, 13, 2015, 6553-6561 (IF 5.636);

- **H. Zhou, D. Yang, N.E. Mircescu, N.P. Ivleva, K. Schwarzmeier, A. Wieser, S. Schubert, R. Niessner, C. Haisch**, “Surface-enhanced Raman scattering detection of bacteria on microarrays at single cell levels using silver nanoparticles”, *Microchimica Acta*, 182, 13, 2015, 2259-2266 (IF 3.741);
- **N.E. Mircescu, H. Zhou, N. Leopold, V. Chiş, N.P. Ivleva, R. Niessner, A. Wieser, C. Haisch**, “Towards a receptor-free immobilization and SERS detection of urinary tract infections causative pathogens”, *Analytical and Bioanalytical Chemistry*, 406, 13, 2014, 3051-3058 (IF 3.578);
- **H. Zhou, D. Yang, N.P. Ivleva, N.E. Mircescu, R. Niessner, C. Haisch**, “SERS detection of bacteria in water by in situ coating with Ag nanoparticles”, *Analytical Chemistry*, 86, 3, 2014, 1525-1533 (IF 5.825);
- **L. Szabó, K. Herman, N.E. Mircescu, I.S. Tódor, B.L. Simon, R.A. Boitor, N. Leopold, V. Chiş**, “SERS and DFT investigation of 1,5-diphenylcarbazine and its metal complexes with Ca(II), Mn(II), Fe(III) and Cu(II)”, *Journal of Molecular Structure*, 1073, 2014, 10-17 (IF 1.599);
- **O.M. Buja, N.E. Mircescu, N. Leopold**, “Raman scattering enhancement of PEG coated gold nanoparticles of defined size”, *Journal of Applied Spectroscopy*, 81, N 3, 2014 (IF 0.514);
- **D. Yang, N.E. Mircescu, H. Zhou, N. Leopold, Y. Ying, C. Haisch**, “DFT study and quantitative detection by surface-enhanced Raman scattering (SERS) of ethyl carbamate”, *Journal of Raman Spectroscopy*, 44, 11, 2013, 1491-1496 (IF 2.519);
- **N. Leopold, V. Chiş, N.E. Mircescu, O.T. Marişca, O.M. Buja, L.F. Leopold, C. Socaciu, C. Braicu, A. Irimie, I. Berindan-Neagoe**, “One step synthesis of SERS active colloidal gold nanoparticles by reduction with polyethylene glycol”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 463, 2013, 133-138 (IF 2.354);
- **K. Herman, N.E. Mircescu, L. Szabó, L.F. Leopold, V. Chiş, N. Leopold**, “In situ silver spot preparation and on-plate surface-enhanced Raman scattering detection in thin layer chromatography separation”, *Journal of Applied Spectroscopy*, 80, 2, 2013, 317-320 (IF 0.514);
- **N.E. Mircescu, M. Oltean, V. Chiş, N. Leopold**, “FTIR, FT-Raman, SERS and DFT study on melamine”, *Vibrational Spectroscopy*, 62, 2012, 165-171 (IF 1.747);
- **L. Szabó, K. Herman, N.E. Mircescu, A. Fălămaş, L.F. Leopold, N. Leopold, C. Buzumurgă, V. Chiş**, “SERS and DFT investigation of 1-(2-pyridylazo)-2-naphthol and its metal complexes with Al(III), Mn(II), Fe(III), Cu(II), Zn(II) and Pb(II)”, *Spectrochimica Acta A*, 93, 2012, 266–273 (IF 1.977);
- **N.E. Mircescu, A. Varvescu, K. Herman, V. Chiş, N. Leopold**, “Surface-enhanced Raman and DFT study on zidovudine”, *Spectroscopy-An International Journal: Biomedical Applications*, 26, 2011, 311–315 (IF 0.805).

Articole non-ISI:

- **N.E. Mircescu, G.S. Mile, M. Oltean, V. Chiş**, “Surface-enhanced Raman detection of melamine at trace level”, *STUDIA UBB PHYSICA*, LVI, 1, 2011 (BDI);
- **L. Szabó, K. Herman, N.E. Mircescu, A. Fălămaş, L.F. Leopold, N. Leopold, V. Chiş**, “Vibrational and DFT study of calcon and its metal complexes”, *STUDIA UBB PHYSICA*, LVI, 2, 2011 (BDI);
- **A. Colniţă, N.E. Dina, D. Vodnar; et al.** “The discrimination of Gram-positive bacteria using Raman and SERS spectroscopies”, *EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS*, 44, 2015, S153 (ISI IF=0 – conference paper);
- **N.E. Dina (Mircescu), C.M. Muntean, N. Leopold** “Discrimination of Grapevine Genomic DNA using urface-enhanced Raman Spectroscopy and PCA”, *NANO-OPTICS: PRINCIPLES ENABLING BASIC RESEARCH AND APPLICATIONS* Book Series: NATO Science for Peace and Security Series B-Physics and Biophysics, p.499-500, 2017 (non ISI – conference paper);
- **N.E. Dina, A. Colniţă, N. Leopold, C. Haisch** “Rapid Single-cell Detection and Identification of Bacteria by Using Surface-enhanced Raman Spectroscopy”, *PROCEDIA TECHNOLOGY*, 27, 2017, 203-207 (non ISI – conference paper);
- **K. Yuan, J. Zheng, ... N.E. Dina, J. Jian, Z. Bao, Z. Hu, Z. Liang, H. Zhou, Z. Jiang** “Self-assembly of Au@Ag nanoparticles on mussel shell to form large-scale 3D supercrystals as natural SERS substrates for the detection of pathogenic bacteria”, *ACS OMEGA*, 3, 2018, 2855-2864 (non ISI – new ACS journal).