

List of publications

Total number of publications: 24

Total number of citations: 150

h-index: 7

Articles (ISI)

1. **Falamas A.**, Tosa V., Farcau C.*, (2019), *Hybrid architectures made of nonlinear-active and metal nanostructures for plasmon-enhanced harmonic generation*, *Optical Materials*, 88, 653-666
2. Simon I.,Hedesiu M*., Virag P., Salmon B., Tarmure V., Baciut M., Bran S., Jacobs R., **Falamas A.**, *Raman Micro-Spectroscopy (RMS) of Dental Pulp Stem Cells (DPSCs): An Approach to Monitor the Effects of Cone Beam Computed Tomography (CBCT) Low-Dose Ionizing Radiation*, *Analytical Letters*, 52(7), 1097-1111
3. **Falamas A.***, Dehelan A. C., Cinta Pinzaru S., (2018), *Monitoring of betulin nanoemulsion treatment and molecular changes in mouse skin cancer using surface enhanced Raman spectroscopy*, *Vibrational Spectroscopy*, 95, 44-50
4. **Falamas A.***, Tosa N., Tosa V. (2017), *Measuring the frequency chirp of white-light continuum in a pump-probe system*, *Journal of Optoelectronics and Advanced Materials*, 19, 5-6, 291-297
5. Marutoiu C., Bratu I., Nemes O. F., Dit I. I., Comes R., Tanaselia C., **Falamas A.***, Miclaus M., Marutoiu V. C., Moraru R., (2017), *Instrumental analysis of materials and topology of the Imperial Gates belonging to the Apahida wooden church, Cluj County*, *Vibrational Spectroscopy*, 89, 131-136
6. Dina N. E., Muntean C. M.*, Leopold N., **Falamas A.**, Halmagyi A., Coste A., (2016), *Structural Changes Induced in Grapevine (Vitis vinifera L.) DNA by Femtosecond IR Laser Pulses: A Surface-Enhanced Raman Spectroscopic Study*, *Nanomaterials*, 6, 96
7. **Falamas A.***, Turcu I. (2016): *Processes in Isotopes and Molecules (PIM 2015)*, 23–25 September 2015, Cluj-Napoca, Romania. *Analytical Letters*, Special Issue Presented at 10th International Conference on Processes in Isotopes and Molecules (PIM 2015), 49, 16, 2537-2539

8. **Falamas A.**, Tosa, N.*, Tosa V. (2015), *Dynamics of laser excited colloidal gold nanoparticles functionalized with cysteine derivatives*, Journal of Quantitative Spectroscopy & Radiative Transfer, 162, 207-212
9. Khatab A. , Lemine O. M.*, Alkaoud A. , **Falamas A.**, Aziz M., Gobato Y. G., Henini M., (2013), *Photoluminescence intensity enhancement in self-assembled In As quantum dots grown on (311)B and (100) GaAs substrates and coated with gold nanoparticles*, Physica E-Low Dimensional Systems and Nanostructures, 54, 233-236
10. Pinzaru S. C.*, **Falamas A.**, Dehelean C. , Morari C., Venter M. , (2013), *Double Amino Functionalized Ag Nanoparticles as SERS Tags in Raman Diagnostic*, Croatica Chemica Acta, 86 (3), 233-244
11. Danciu C.*, **Falamas A.**, Dehelean C., Soica C., Radeke H., Barbu-Tudoran L., Bojin F., Cinta Pinzaru S., Munteanu M. F., (2013), *A characterization of four B16 murine melanoma cell sublines molecular fingerprint and proliferation behavior*, Cancer Cell International 13 (75)
12. Cinta Pinzaru S.*, **Falamas A.**, Dehelean C.A., (2013), *Molecular conformation changes along the malignancy revealed by optical nanosensors*, Journal of Cellular and Molecular Medicine, 17(2), 277-286
13. Gui O. M. *, **Falamas A.**, Barbu Tudoran L., Aluas M., Giambra B., Cinta Pinzaru S., (2013), *Surface-enhanced Raman scattering (SERS) and complementary techniques applied for the investigation of an Italian cultural heritage canvas*, Journal of Raman Spectroscopy, 44(2), 277-282
14. **Falamas A.***, Kalra S., Chis V., Notingher I., (2013), *Monitoring the RNA Distribution in Human Embryonic Stem Cells using Raman Micro-Spectroscopy and Fluorescence Imaging*, Processes in Isotopes and Molecules, AIP Conference Proceedings, 1565, 43-47
15. Lekprasert B.*, Korolkov V., **Falamas A.**, Chis V., Roberts C.J., Tendler S.J.B., Notingher I., (2012), *Investigations of the Supramolecular Structure of Individual Diphenylalanine Nano- and Microtubes by Polarized Raman Microspectroscopy*, Biomacromolecules, 13(7), 2181
16. Szabo L., Herman K. , Mircescu N.E., **Falamas A.**, Leopold L.F., Leopold N., Buzumurga C., Chis V. *, (2012), *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 Parta A; Molecular and Biomolecular Spectroscopy, 93, 266-273
17. Ciurlea S., Dehelean C. A.*, Pinzaru S.C., **Falamas A.**, Muresan A., Loghin F., (2012), *Raman spectroscopy investigations of the CD1 NU/NU mouse skin pre-carcinoma damages*, Farmacia, 60 (3), 448-456
18. **Falamas A.***, Cinta Pinzaru S., Chis V., Dehelean C. A., (2011), *Spectroscopic investigations of newly formed betulin-cyclodextrin guesthost type complexes as potential anti skin cancer candidates*, Journal of Molecular Structure, 993 (1-3), 297

19. **Falamas A.***, Dehelean C. A., Cinta Pinzaru S., (2011), *Raman and SERS characterization of normal pathological skin*, Studia Universitatis Babes-Bolyai Chemia, 56(4), 89-96
20. **Falamas A.***, Cinta Pinzaru S., Dehelean C. A., Peev C. I., Soica C., (2011), *Betulin and its natural resource as potential anticancer drug candidate seen by FT-Raman and FT-IR spectroscopy*, Journal of Raman Spectroscopy, 42(1), 97-107
21. Cinta Pinzaru S., Dehelean C. A., **Falamas A.***, Leopold N., Lehene C., (2010), *Cancer tissue screening using Surface Enhanced Raman Scattering*, Laser Applications in Life Sciences, Proceedings of SPIE, 7376, 73760T
22. **Falamas A.***, Dehelean C. A., Cinta Pinzaru S., Venter M. M., (2010), *Raman imaging of in vivo damaged skin tissues from mice specimens*, Studia Universitatis Babes-Bolyai Chemia, 55 (2), 273-281

Book chapter

1. Cinta Pinzaru S.*, **Falamas A.**, Dehelean C. A. (2018), *Raman spectroscopy: a key analytical tool for new drugs research and development*, Book chapter in Studies in Natural Products Chemistry (Bioactive Natural Products), volume 61, Editor Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam

Articles (non-ISI)

1. **Falamas A.***, Dehelean C. A., Cinta Pinzaru S., Krafft Ch., Popp J., (2010), *Raman and FT-IR imaging of in vivo damaged tissue induced by 7,12-dimethylbenzanthracene (DMBA) in mouse models*, Romanian Journal of Biophys., 20(1), 1

* = Corresponding author