

Research articles:

1. I. Marica, M. Aluas, S. Pinzaru, *Raman technology application for plastic waste management aligned with FAIR principle to support the forthcoming plastic and environment initiatives*, Waste Management, Volume 144, 1 May 2022, Pages 479-489
2. Baricz, A., Levei, E.A., Şenilă, M., S. Pinzaru M. Aluas *et al*, *Comprehensive mineralogical and physicochemical characterization of recent sapropels from Romanian saline lakes for potential use in pelotherapy*, Scientific Reports, 11(1),18633 (2021)
3. Ogresta, L., Nekvapil, F., Tămaş, T.M. Aluas, (...), S. Pinzaru *Rapid and Application-Tailored Assessment Tool for Biogenic Powders from Crustacean Shell Waste: Fourier Transform-Infrared Spectroscopy Complemented with X-ray Diffraction, Scanning Electron Microscopy, and Nuclear Magnetic Resonance Spectroscopy*, ACS OMEGA, 6(42), pp. 27773-27780 (2021)
4. Fran Nekvapil, Mihaela Aluas, Lucian Barbu-Tudoran *et al*, *From Blue Bioeconomy toward Circular Economy through High-Sensitivity Analytical Research on Waste Blue Crab Shells*, ACS Sustainable Chem. Eng. 2019, 7, 19, 16820–16827
5. O. M. Gui, A. Fălămaş, L. Barbu-Tudoran, M. Aluaş, B. Giambra, S. Cîntă Pînzaru *Surface-enhanced Raman scattering (SERS) and complementary techniques applied for the investigation of an Italian cultural heritage canvas*, Journal of Raman Spectroscopy, 44(2), pp 272 -282 (2013)
6. Codruta Şoica, Camelia Peev, Cristina Dehelean, Mihaela Aluas, Istvan Zupko, Kasa Peter, Ersilia Alexa, *Physico-chemical comparison study of betulinic acid, betulin and birch bark extract and in vitro investigation of their cytotoxic effects towards skin epidermoid carcinoma (A431), breast carcinoma (MCF7) and cervix adenocarcinoma (HeLa) cell-lines*, Natural Product Research, 2012; 26 (10): 968-74
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8. Rus, Lucia M.; Kacso, Irina; Borodi, Gheorghe; Aluas, Mihaela; Tomuta, Ioan; Iuga, Cristina; Simon, Simion; Bratu, Ioan; Bojita, Marius, *Solid form of indapamide recrystallized from acetonitrile/diethyl ether solvent mixture*, AIP Conference Proceedings, Volume 1425, pp. 39-42 (2012).
9. C. TRIPON, X. FILIP, **M. ALUAS**, C. FILIP *1h Double Quantum Nmr At Ultra Fast Mas : Analytical And Numerical Investigations*; Romanian Reports in Physics, Vol. 64, No. 1, P. 127–134, 2012
10. **Mihaela Aluas**, Carmen Tripon, John M. Griffin, Xenia Filip, Steven P. Brown, Claudiu Filip, *CHHC and ^1H - ^1H magnetization exchange: Analysis by experimental solid-state NMR and 11-spin density-matrix simulations*, Journal of Magnetic Resonance, 199(2), 2009, 173-187
11. Nicolae Leopold, László Szabó, Adrian Pîrnău, **Mihaela Aluas**, Loredana F. Leopold, Vasile Chiş, Onuc Cozar, *Raman spectroscopic and DFT theoretical study of 4-(2-pyridylazo)resorcinol and its complexes with zinc(II) and copper(II)*, Journal of Molecular Structure, 919, 2009, 94
12. Xenia Filip, Carmen Tripon, **Mihaela Aluas**, Claudiu Filip, *New solid state-NMR techniques for investigating structure and dynamics in soft solids and biomaterials*, J. Optoelectr. Adv. Mater. Vol.10, iss. 9, 2277 (2008)
13. **Mihaela Aluas**, Codruta Soica, Arpad Gyeresi, Cristina Dehelean, Simion Simon, *Physico-chemical analysis of binary complexes of furosemide and randomly methylated β -cyclodextrin*, Rev. de chimie 58 (10), 891 (2007)
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16. **Mihaela Aluas**, Carmen Tripon, Xenia Filip, Claudiu Filip, *Extracting intramolecular dynamics informations from conventional and remote protons CP/MAS build-up curves*, J. Optoelectr. Adv. Mater. Vol.9, iss. 3 (2007).
17. Codruta Soica, Arpad Gyeresi, Bogdan Frentiu, Cristina Dehelean, **Mihaela Aluas**, *Preparation and physico-chemical characterization of chlorthalidone hydroxypropyl- cyclodextrin binary systems*, Rev. de chimie 58 (7), 606 (2007)

18. **M. Aluas**, C. Filip, *Solid-state NMR Characterization of Cross-Linking in EPDM/PP blends from ^{13}C - ^1H Polarization Transfer Dynamics*, Solid State Nuclear Magnetic Resonance, 27, 3, 165-173 (2005)
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22. Cînta, S., C. Morari, E. Vogel, D. Maniu, **M. Aluas**, T. Iliescu, O. Cozar, and W.Kiefer, *Vibrational studies of B6 vitamin*. Vibrational Spectroscopy, 19(2), 329 (1999)