

Mihaela Aluas

Teza de doctorat: *Characterization of Rubber-filled Polymers by Solid-State NMR Spectroscopy and other Methods*, 2004, Universitatea Martin Luther Halle Wittenberg, Halle, Germania.

Lucrari stiintifice publicate in reviste cotate ISI:

1. **M. Aluas**, C. Porumb, P. Comanescu, *Highly Adaptive platform for e-learning and collaborative learning*, EdMedia + Innovate Learning, Jul 10, 2023 in Vienna, Austria ISBN 978-1-939797-71-1 Publisher: Association for the Advancement of Computing in Education (AACE), Waynesville, NC
2. 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
3. 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)
4. 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)
5. 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
6. O. M. Gui, A. Fălămaş, L. Barbu-Tudoran, **M. Aluas**, 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)
7. 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

8. C. Dehelean, C. Şoica, I. Ledeti, **M. Aluas**, I. Zupko, A. Galuscan, S. Cinta-Pinzaru, M. Munteanu, *Study of the betulin enriched birch bark extracts effects on human carcinoma cells and ear inflammation*, Chemistry Central Journal 2012, **6**:137 doi:10.1186/1752-153X-6-137 (2012)
9. 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).
10. 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
11. **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
12. 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
13. 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)
14. **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)
15. Tripon, C, **Aluas, M**, Filip, X, Filip, C, *Polarization transfer from remote protons in C-13 CP/MAS*. Journal of Magnetic Resonance, 183 (1), pp. 68-76, (2006)

16. Tripon, C, Toloman, D, **Aluas, M**, Filip, C, Ardelean, I, *Structural investigation of the $xV(2)O(5)(1-X)[(Bi_2O_3B_2O_3)-B\text{-center dot}]$ glasses by IR absorbtion, EPR and NMR*, J. Optoelectr. Adv. Mater. Vol.8, iss. 3, 1129, (2006).
17. **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).
18. 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)
19. **M. Aluas**, C. Filip, *Solid-state NMR Characterization of Cross-Linking in EPDM/PP blends from $^{13}C\text{-}^1H$ Polarization Transfer Dynamics*, Solid State Nuclear Magnetic Resonance, 27, 3, 165-173 (2005)
20. M.Terekhov, S. Neutzler, **M. Aluas**, D.Hoepfel, L.R. Oellrich *NMR measurements of gaseous sulfur hexafluoride (SF_6) to probe the cross-linking of EPDM rubber*. Magnetic Resonance in Chemistry, 43, 11, 926-936 (2005)
21. H. Menge, **M. Aluas**, S. Ilisch, *Investigation of Physical-mechanical Properties of PP/EPDM Blends*, Kautschuk Gummi Kunststoffe, 55, 3, 86-93 (2002)
22. S. Cînta, E. Vogel, D. Maniu, **M. Aluas**, T. Iliescu, O. Cozar, W. Kiefer, *SERS mechanisms of the Vitamin PP on different Au and Ag surfaces*, Journal of Molecular Structure, Vol. 482-483, 679 (1999)
23. Cinta, 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)

Lucrari stiintifice publicate in reviste cotate ISI in domeniul educatiei universitare:

1. **M. Aluas**, C. Moraru, M. Reindhorf, B. Huemer, C. Filip, A. Kelemen, and R. Lung, *Results and discussion over an innovative approach of delivering Academic Writing courses*, CURRENT SCIENCE, VOL. 112, NO. 10, (2017).

2. Cramarencu, R., Moraru, C., Balazsi, R., & **Aluas, M.** *Meta-Analysis Versus Systematic Review in Studies Regarding Specific Interventions in Academic Writing in English*. *Cognition, Brain, Behaviour.*, XIX(1), 55–73, (2015).
3. S Pavlenko, C Bojan, A Kelemen, **M Aluas**, *Academic Writing: Global Views and Romanian Trends*, *TRANSYLVANIAN REVIEW* 23, 259-270, (2014)
4. Moraru, C., Lung, R.I., Balazsi, R., Both, I., **Aluas, M.**, *Needs analysis as an Instrument to Design and Adapt Specific Academic Writing Interventions*. *Cognition, Brain, Behaviour. An Interdisciplinary Journal, Volume XVIII, No. 4 (December), 261-281*, (2014).

CARTI:

1. **Mihaela Aluas**, *Solid State NMR Spectroscopy on Polymer Blends*, Ed. Casa Cartii de Stiinta, 2007, 99 pagini, ISBN 978-973-133-244-4
2. **Mihaela Aluas**, Simion Simon (editori), *Metode experimentale avansate pentru studiul si analiza bio-nano-sistemelor*, Ed. Casa Cartii de Stiinta, 2012, ISBN 978-606-17-0115-5, 517 pagini

Capitole in calitate de autor:

- a) **M. Aluas**, C. Filip, *Spectroscopie de rezonanta magnetica nucleara pe solide*, 25 pagini
 - b) **M. Aluas**, C. Filip, *Spectroscopie de rezonanta magnetica pe solide- Implementarea de metode avansate RMN-S pentru aplicatii pe sisteme moleculare organice in faza solida* (capitol carte), 30 pagini
3. **Mihaela Aluas** et al, *Scrierea Academica. Cercetare si Autoperfectionare*, Ed. Casa Cartii de Stiinta, 2014, ISBN 978-606-17-0625-9, 150 pagini

4. Moraru Camelia, **Aluas Mihaela**, Kelemen Andrei, Lung Rodica Ioana, Cramarenco Romana-Emilia, Pavlenko Claudia Sonia, Schuster Christian, Bojan Cristina, Balazsi Robert-Sandor, ***Academic Writing at Babeş-Bolyai University. A Case Study***, Edit. Springer-Verlag, chap. IV.2, Springer-Verlag Berlin Heidelberg New York, **2018**, Print ISBN 978-3-319-95197-3, Online ISBN 978-3-319-95198-0, 45-62.

PROIECTE COORDONATE IN CALITATE DE DIRECTOR in cadrul universitatii Babeş-Bolyai:

1. **Aplicatii ale Spectroscopiei Magnetice Nucleare pe Solide (SS-NMR) pentru Determinarea Proprietatilor Proteinelor Insolubile si a Peptidelor Acestora**, cod proiect CNCSIS: 63/2006 Tema 1, 63/2007 Tema 2.
2. **„Program doctoral performant pentru formarea resursei umane inalt calificate in cercetarea stiintifica interdisciplinara”**, cod contract POSDRU/21/1.5/G/36154. Valoare contract aprox. 1.750.000 lei.
3. **NextTechTalents - Establish a Talent Ecosystem to Increase the Competences and Future Employability of Early-Stage Researchers Emphasising the Deep Tech Sector**, HORIZON WIDERA – 213.000 euro