

LISTA LUCRĂRILOR PUBLICATE

CONF. DR. GEORGESCU ALINA-FLORINA

A. Teza de doctorat: „*Determinarea spatio-temporala a gangliozidelor in creierul uman*”, UMF „Carol Davila” Bucuresti, Conducator stiintific: Prof.dr. Leon Zagrean

B. Cărți de specialitate

- capitole tratate - în edituri internaționale:

1. Zamfir AD, Flangea C, **Serb A**, Zagrean AM, Rizzi AM, Sisu E., Separation and identification of glycoforms by capillary electrophoresis with electrospray ionization mass spectrometric detection., Jennifer J. Kohler and Steven M. Patrie (eds.), Mass Spectrometry of Glycoproteins: Methods and Protocols, Methods in Molecular Biology, vol. 951, **Springer Protocols, Editura Humana Press**, 2013, 145-169
2. Zamfir AD, Flangea C, **Serb A**, Sisu E, Zagrean L, Rizzi A, Seidler DG., Brain chondroitin/dermatan sulfate, from cerebral tissue to fine structure: extraction, preparation, and fully automated chip-electrospray mass spectrometric analysis, Françoise Rédini (ed.), Proteoglycans. Methods and Protocols; Methods in Molecular Biology, vol. 836, **Springer Protocols, Editura Humana Press**, 2012, 145-159

- cărți și capitole în cărți - în edituri naționale:

1. Andrei Anghel, **Alina Georgescu**, Adriana Kaycsa, Anca Marcu, Liviu Tămaș, Adrian Mihala, Ramona Buzatu, Maria Sala-Cîrtog, Alexandra Moatăr, Aimee Chiș, *Lucrari Practice De Biochimie Farmaceutica*, Ed. Victor Babes, Timisoara 2019
2. Andrei Anghel, Edward Seclaman, Liviu Tamas, Marilena Motoc, Eugen Sisu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sirbu, Catalin Marian, Corina Samoila, Daniela Grecu, Felicia Sfrijan, **Alina Georgescu**, Anca Marcu, Ramona Buzatu, Diana Bonte, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, Liana Mărieș, Maria Sala-Cîrtog, *Lucrari practice de chimie si biochimie medicala pentru studentii facultatilor de medicina*, Ed. Victor Babes, Timisoara 2019
3. Andrei Anghel, Edward Seclaman, Liviu Tamas, Marilena Motoc, Eugen Sisu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sirbu, Catalin Marian, Corina Samoila, Daniela Grecu, Felicia Sfrijan, **Alina Georgescu**, Anca Marcu, Ramona Buzatu, Diana Bonte, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, Liana Mărieș, *Lucrari practice de chimie si biochimie medicala pentru studentii facultatilor de medicina*, Ed. Victor Babes, Timisoara 2017
4. Andrei Anghel, Edward Șeclăman, Liviu Tămaș, Marilena Motoc, Eugen Șișu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sîrbu, Catalin Marian, Corina Samoilă, Daniela Grecu, Felicia Sfrijan, **Alina Georgescu**, Anca Marcu, Ramona Buzatu, Diana Bonțe, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, *Lucrari practice de chimie si biochimie medicala pentru studentii facultatilor de medicina*, Ed. Victor Babes, Timisoara 2016

5. Anghel A, Seclăman E, Tămaş L, Motoc M, Şişu E, Kaycsa A, David D, Sirbu IO, Marian C, Samoilă C, Grecu D, Sfrijan F, **Georgescu A**, Marcu A, Buzatu R, Bonţe D, Gurban C, Alexa A, Bujor G, Mihala A, *Lucrari practice de chimie si biochimie medicala pentru studentii facultatilor de medicina*, Ed. Victor Babes, Timisoara 2015
6. Andrei Anghel, Edward Seclaman, Liviu Tamas, Marilena Motoc, Eugen Sisu, Adriana Kaycsa, Dana David, Ioan Ovidiu Sirbu, Catalin Marian, Corina Samoila, Daniela Grecu, Felicia Sfrijan, Alina Serb, Anca Marcu, Ramona Buzatu, Diana Bonte, Camelia Gurban, Anda Alexa, Georgeta Bujor, Adrian Mihala, Raluca Dumache, *Lucrari practice de chimie si biochimie medicala - pentru studentii Facultatilor de Medicina*, Ed. Victor Babes, Timisoara 2014
7. Anghel A, Seclăman E, Tămaş L, Motoc M, Şişu E, Kaycsa A, David D, Samoilă C, Grecu D, Sfrijan F, Mihala A, Bonţe D, Bujor C, Alexa A, Gurban C, **Şerb A**, Dumache R, *Lucrari Practice de Chimie şi Biochimie Medicală*, Editura Victor Babes, Timişoara , 2012
8. Anghel A, Rusu V, Kaycsa A, Seclăman E, Tămaş L, Marian C, Motoc M, Samoilă C, Grecu D, Sfrijan F, David D, Mihala A, Nariţa D, Moldovan I, Flangea C, Bonţe D, Şişu E, Gurban C, **Şerb A**, *Chimie şi Biochimie Medicală – Aplicaţii practice şi de Laborator Clinic*, Editura Eurostampa, Timişoara , 2006
9. Motoc M, Anghel A, Samoilă C, Sfrijan F, Flangea C, **Şerb A**, Grecu D, *Noţiuni de chimie şi biochimie a cavităţii bucale, dinţilor şi materialelor dentare*, Editura Eurostampa, Timişoara , 2006

C. Lucrări in extenso

- lucrari ISI in extenso:

1. **Serb, A.F.**; Georgescu, M.; Onulov, R.; Novaconi, C.R.; Sisu, E.; Bolocan, A.; Sandu, R.E. Mass-Spectrometry-Based Research of Cosmetic Ingredients. *Molecules* **2024**, 29, 1336. (IF 2022=4.6)
2. Pinosanu EA , Pircoveanu D, Carmen Valeria Albu CV, Burada E, Pirvu A, Surugiu R, Sandu RE, **Serb AF**. Rhoa/ROCK, mTOR and Secretome-Based Treatments for Ischemic Stroke: New Perspectives, *Curr. Issues Mol. Biol*, **2024**, 46, 3484-3501. (IF 2022=3.1).
3. Novaconi, C.R.; Onulov, R.; **Serb, A.F.***; Sisu, E.; Dinca, N.; Pascariu, M.-C.; Georgescu, M. Assessing Glycosphingolipid Profiles in Human Health and Disease Using Non-Imaging MALDI Mass Spectrometry. *Appl. Sci.* **2023**, 13, 9922. (IF 2022=2.7) *corresponding author
4. Cojocariu, C.; Dinca, N.; Georgescu, M.; Sisu, E.; **Serb, A.***; Pascariu, M.-C. Mass–Energy Profiles Obtained by Quantum Chemical Computing Applied in Mass Spectrometry: A Case Study with Identification of a Group of Acetalized Monosaccharide Isomers. *Appl. Sci.* **2023**, 13, 7530. (IF 2022=2.7) *corresponding author
5. Cojocariu C, Hădade ND, Pascariu MC, Ladasiu C, **Serb A***, Sisu E, Georgescu M, Unexpected behavior of trisilanolisobutyl-poss, key compound in drug delivery systems, during mass spectrometry analysis, *FARMACIA*, **2023**, Vol. 71, 1 (IF 2022=1.6) *corresponding author
6. **Serb AF**, Novaconi C, Georgescu M, Puiu M, Dema A, Onulov R, Sisu E. Preliminary Analysis of the Glycolipid Profile in Secondary Brain Tumors, *Biomed Res Int.*, 2022, Nov 22; 2022:4293172. doi: 10.1155/2022/4293172. (IF 2021=3.246)
7. Pascariu, M.-C.; Dinca, N.; Cojocariu, C.; Sisu, E.; **Serb, A.***; Birza, R.; Georgescu, M. Computed Mass-Fragmentation Energy Profiles of Some Acetalized Monosaccharides for Identification in Mass Spectrometry., *Symmetry* , 2022, 14, 1074. (IF 2022=2.7), *corresponding author
8. Georgescu M, Haidar L, **Serb AF***, Puscasiu D, Georgescu D, Mathematical Modeling of Brain Activity under Specific Auditory Stimulation, *Computational and Mathematical Methods in Medicine*, 2021, DOI:10.1155/2021/6676681 (IF 2021=2.809), *corresponding author

9. Bojin LA, Georgescu M, Cojocaru C, Pascariu MC, Purcarea VL, Ivan MV, Puiu M, Dehelean C, **Serb AF** *, Sisu E, Penescu MN, Structural investigation of raw and modified glycans by MALDI-TOF mass spectrometry, *FARMACIA*, 2020, 68 (5) :891-897 , *corresponding author (IF 2020=**1.433**)
10. Bojin LA, **Serb AF**, Pascariu MC, Moaca A, Kostici R, Purcarea VL, Penescu M, Ivan MV, Georgescu M, Sisu E, Assessment of antioxidant properties of different fomes fomentarius extracts, *FARMACIA*, 2020, 68 (2) :322-328 , (IF 2020=**1.433**)
11. Ivan VM, Georgescu M, Apostol A, Albulescu N, **Serb AF***, Tatu CS, Trimetazidine, a Metabolic Modulator, with Cardioprotective Effects Against Myocardial Ischemia, *REV. CHIM.-BUCHAREST*, 2018, 69(7):1616-1620. (IF 2018=**1.605**) *corresponding author
12. Pascariu M.C., Niculescu M., Belengeanu D., **Serb A.**, Božin L.A., Mitar C.M., Ciopănoiu I.R., Lupea A.X., Radical Cations in EI-MS Analysis of Drugs. 1. Riboflavin, Epinephrine, Chloramphenicol, Metronidazole and Dipyrindamole, *REV. CHIM.-BUCHAREST*, 2015, 66(10), 1582-1589, ISSN 0034-7752, (IF 2015: **0.956**)
13. **Serb AF**, Sisu E, Vukelić Ž, Zamfir AD, Profiling and Sequencing of Gangliosides from Human Caudate Nucleus by Chip-Nanoelectrospray Mass Spectrometry, *J Mass Spectrom.*, 2012: 47(12):1561-1570 (IF 2012: **3.214**)
14. Zamfir AD, **Serb A**, Vukelić Ž, Flangea C, Şchiopu C, Fabris D, Kalanj-Bognar S, Capitan F, Sisu E, Assessment of the molecular expression and structure of gangliosides in brain metastasis of lung adenocarcinoma by an advanced approach based on fully automated chip-nanoelectrospray mass spectrometry., *J Am Soc Mass Spectrom.*, 2011: 22(12), 2145-2159 (IF 2011: **4.002**)
15. Flangea C, **Serb A**, Sişu E, Zamfir AD, Chip-based nanoelectrospray mass spectrometry of brain gangliosides., *Biochim Biophys Acta: Molecular and Cell Biology of Lipids*, 2011: 1811(9), 513-535 (IF 2011: **5.269**)
16. Sisu E, Flangea C, **Serb A**, Rizzi A, Zamfir AD, High-performance separation techniques hyphenated to mass spectrometry for ganglioside analysis., *Electrophoresis*, 2011: 32(13), 1591-1609 (IF 2011: **3.303**)
17. Sisu E, Flangea C, **Serb A**, Zamfir AD, Modern developments in mass spectrometry of chondroitin and dermatan sulfate glycosaminoglycans., *Amino Acids*, 2011: 41(2), 235-256 (IF 2011: **3.248**)
18. **Serb A**, Schiopu C, Flangea C, Sisu E, Zamfir AD, Top-down glycolipidomics: fragmentation analysis of ganglioside oligosaccharide core and ceramide moiety by chip-nanoelectrospray collision-induced dissociation MS(2)-MS(6)., *J Mass Spectrom.*, 2009: 44(10), 1434-1442 (IF 2009: **3.411**)
19. **Serb A**, Schiopu C, Flangea C, Vukelić Ž, Sisu E, Zăgrean L, Zamfir AD, High-throughput analysis of gangliosides in defined regions of fetal brain by fully automated chip-based nanoelectrospray ionization multistage mass spectrometry, *Eur. J. Mass Spectrom.*, 2009: 15, 541-553 (IF 2009: **1.34**)
20. Schiopu C, Flangea C, Căpitan F, **Serb A**, Vukelić Ž, Kalanj-Bognar S, Sisu E, Przybylski M, Zamfir AD, Determination of ganglioside composition and structure in human brain hemangioma by chip-based nanoelectrospray ionisation tandem mass spectrometry, *Anal. Bioanal. Chem.*, 2009: 395(8), 2465-2477 (IF 2009: **3.48**)
21. Flangea C, Schiopu C, Sisu E, **Serb A**, Przybylski M, Seidler DG, Zamfir AD, Determination of sulfation pattern in brain glycosaminoglycans by chip-based electrospray ionization ion trap mass spectrometry., *Anal. Bioanal. Chem.*, 2009: 395(8), 2489-2498 (IF 2009: **3.48**)
22. Zamfir AD, Flangea C, Sisu E, **Serb AF**, Dincă N, Bruckner P, Seidler DG, Analysis of novel over- and under-sulfated glycosaminoglycan sequences by enzyme cleavage and multiple stage MS, *Proteomics*, 2009: 9(13), 3435-3444 (IF 2009: **4.426**)
23. Flangea C, **Serb AF**, Schiopu C, Tudor S, Sisu E, Seidler DG, Zamfir AD, Discrimination of GalNAc (4S/6S) sulfation sites in chondroitin sulfate disaccharides by chip-based nanoelectrospray multistage mass spectrometry, *Cent. Eur. J. Chem.*, 2009: 7(4), 752–759 (IF 2009: **1.065**)

- lucrari BDI in extenso:

1. Cojocariu C., Pascariu M.C., Dinca N., Onulov R., Sisu E., Puscasiu D., **Serb A.**, Georgescu M. Identification of cis and trans configurations in bioactive lipids using mass-energy profiles, *Fiziologia – Physiology*, 2022, 1(103), 40-43.
2. Bojin L., Cojocaru C., Georgescu M., Puiu M., Pascariu MC, **Serb A.**, Puscasiu D., Tatu C, Sisu E, Investigation of Neutral Polysaccharides from Fomes Fomentarius: A Preliminary Study, *Fiziologia - Physiology*, 2018, 28.2(96), 20-27.
3. Georgescu M, **Serb AF**, Tatu C, Puscasiu D, Georgescu D, Enescu-Bieru D, Iancu M, The Influence of External Auditory Stimuli on Electrical Brain Activity, *Fiziologia – Physiology*, 2012: 22, No. 2(74), 4-10.

D. Lucrări publicate în rezumat în reviste și volume de conferințe cu ISBN/ISSN

- în reviste ISI/B+ (BDI)/volume de rezumate ale unor conferințe cu ISSN/ ISBN:

1. Cristina Novaconi, Robert Onulov, **Alina Florina Șerb**, Marius Georgescu, Carolina Cojocariu, Eugen Sisu, Mihai Cosmin Pascariu, MALDI MS – based sialylation profile in human brain metastasis, The Academic Days of Arad, XXXIII-rd Edition, 23-27 mai 2023, Arad (România), p. 198, ISBN 978-973-664-938-7, (https://www.zileleacademicearadene.ro/docs/ebook_ZAA_2023.pdf)
2. Carolina Cojocariu Hogeia, **Alina Șerb**, Ramona Novaconi, Marius Georgescu, Eugen Sisu, Nicolae Dinca, Flaviu-Calin Lădașiu Ciolacu, Mihai Cosmin Pascariu, Polysaccharides modified at the reducing end: synthesis and characterization, The Academic Days of Arad, ediția a XXXII-a, 25-29 mai 2022, Arad (România), p. 196, ISBN 978-973-664-920-2, (http://www.zileleacademicearadene.ro/wp-content/uploads/zaa2022_eisbn.pdf)
3. Loreta-Andrea Bozin, Mihai-Cosmin Pascariu, **Alina Georgescu**, Georgeta Simu, Anca Dragomirescu, Eugen Sisu, PRELIMINARY TLC STUDIES ON POSIDONIA OCEANICA SEAGRASS, Proceedings of The 23rd International Symposium on Analytical and Environmental Problems, October 9-10, 2017, Szeged (Hungary), pp. 113-115, ISBN 978-963-306-563-1, (https://www2.sci.u-szeged.hu/isaep/index.htm_files/Proceedings_ISAEP_2017.pdf)
4. Georgescu D, Georgesc M, **Georgescu AF**, Tarata M, Alexandru D, Iancu M, A mathematical model of EEG spectrum under monotonous sound stimulation, The XIIth National Congress of the Romanian Society of Physiology, with international participation-SRF2016, Craiova, 26th-28 th of May 2016, *Fiziologia – Physiology supplement*, p 23, 2016, ISSN 1223-2076
5. **A.F. Georgescu**, L. Bozin, M. Georgescu, A. Dema, M.C. Pascariu, E. Sisu, Assessment of distribution of glycoconjugates obtained from natural matrices, The XIIth National Congress of the Romanian Society of Physiology, with international participation-SRF2016, Craiova, 26th-28 th of May 2016, *Fiziologia – Physiology supplement*, p 56, 2016, ISSN 1223-2076
6. Bozin L., Neanu C., Pascariu M.C., Belengeanu D., Dragomirescu A., **Serb A.**, Peter F., Sisu E, TLC/densitometry analysis of diastereomer mixtures as pseudo-ceramide precursors for dermato-cosmetology, 17thDKMT Euroregional Conference on Environment and Health, 5-6 iunie 2015, Szeged, Ungaria, Book of abstracts p 42, ISBN 978-963-306-374-3
7. Pascariu M.C., Bozin L.A., **Serb A.**, Dinca N., Sisu E., Semi empirical proof of long bond states as intermediates in mass spectrometry fragmentation of aldohexofuranose derivates, 21st International symposium on analytical and environmental problems, 28 September 2015, Szeged, Ungaria, ISBN 978-963-306-411-5

8. Bozin L.A., Dragomirescu A., Simu G., Pascariu M.C., **Serb A.**, Sisu ETLC- Densitometric investigation of bioactive components from Mediterranean algae 21st International symposium on analytical and environmental problems, 28 September 2015, Szeged, Ungaria, ISBN 978-963-306-411-5
9. **A. Serb**, A.Dem, M.Georgescu, E.Sisu, L.Zagreanu, A.Zamfir, Neurolipidomic studies about carbohydrate-linked lipids from biological matrices using advanced mass spectrometry techniques, The Conference of the National Neuroscience Society of Romania 2014, SNN 2014 Bucuresti, 23-25 Octombrie 2014; rezumat publicat in revista Fiziologia (Physiology), supplement 2,2014, pag.29, ISSN 1223-2076
10. **Serb A**, Dragan S , Flangea C, Sisu E, Zagrean A-M, Vukelić Ž, Zamfir AD, Application of Modern Mass Spectrometric Methods in Neuroscience Research: Mapping and Sequencing of Human Brain Gangliosides, Poster Presentation, The 45th Annual Meeting of the German Society for Mass Spectrometry (DGMS), Poznan, Polonia, 4-7 martie 2012, Book of abstracts ISBN 978-83-7712-064-4, pag.250
11. Schiopu C, Capitan F, **Serb A**, Vukelić Ž, Sisu E, Zamfir AD, Molecular expression and structure of gangliosides in brain metastasis of lung adenocarcinoma by NanoMate-QTOF MS and MS/MS, Poster Presentation, The 45th Annual Meeting of the German Society for Mass Spectrometry (DGMS), Poznan, Polonia, 4-7 martie 2012, Book of abstracts ISBN 978-83-7712-064-4, pag.295
12. Vukelić Ž, Marinčić D, **Serb A**, Zamfir AD., Mass Spectrometry-Based Characterization of Composition and Structure of Gangliosides as Human Brain Biomarkers in Health and Disease, The XXIth International Symposium on Glycoconjugates (GLYCO 21); Vienna, Austria, 21-26 august 2011, Abstract published in Glycoconj. J, 124/Vliegenthart, J.F.G., editor(s).Vienna : Springer, 2011: 28(5), 246-247 (IF 2012: 1.882)
13. Marinčić D, Pašalić T, **Serb A**, Sajko T, Zamfir AD, Vukelić Ž, Ganglioside Composition and Structure Analysis in Human Dysembryoplastic Neuroepithelial Tumor, Poster Presentation, SiNAPSA Neuroscience Conference (SNC'11): Central European FENS Featured Regional Meeting : Book of Abstracts/Osredkar Damjan; Koritnik Blaž; Pelko Miha editor(s), Ljubljana : SiNAPSA, Slovenian Neuroscience Association, 22-25 septembrie 2011, pag. 155, ISBN: 978-961-91704-4-1
14. **Serb A**, Şişu E, Flangea C, Zăgrean AM, Zăgrean L, Zamfir AD, Mass spectrometric determination of glycolipid expression and structure in brain metastasis of lung adenocarcinoma, Oral Prezentation, Conferința Diaspora în Cercetarea Ştiinţifică si Invatamantul Superior din Romania, Bucureşti, România, 22-23 septembrie, 2010, Book of abstracts ISBN: 978-973-708-502-3, pag.28
15. Zamfir AD, Şişu E, Flangea C, **Serb A**, Zăgrean AM, Zăgrean L, Chip-based mass spectrometry, a novel method for human brain biomarker discovery, Oral Prezentation, Conferința Diaspora în Cercetarea Ştiinţifică si Invatamantul Superior din Romania, Bucureşti, România, 22-23 septembrie, 2010, Book of abstracts ISBN: 978-973-708-502-3, pag.31
16. Zăgrean L, **Serb A**, Zăgrean AM, Şişu E, Vukelić Ž, Zamfir A, Neuroglycolipidomics: characterization of ganglioside composition specificity in defined regions of fetal human brain by fully automated chip-based nanoelectrospray mass spectrometry, Poster Presentation, A XXIV-a Conferință Națională a Societății Române de Ştiințe Fiziologice, Băile Felix, România, 2-5 iunie 2010, Fiziologia-Physiology supplement, p44-45, ISSN 1223-2076
17. **Serb A**, Şchiopu C, Flangea C, Zăgrean AM, Şişu E, Zamfir A, Zăgrean L, A novel method for brain ganglioside analysis based on top-down fragmentation by multistage mass spectrometry, Oral Prezentation, Al 5-lea Simpozion al Societății Naționale de Neuroştiințe cu participare internațională "Gheorghe Marinescu", Bucureşti, România, 1-3 octombrie, 2009, Book of abstracts ISBN:978-973-708-430-9, pag.31

18. Schiopu C., Capitan F., **Șerb A.**, Zagrean A.M., Flangea C., Sisu E., Zagrean L. and Zamfir A., Automatic assignment of ganglioside mass spectrometry using a novel computer software platform, Poster Presentation, Al 5-lea Simpozion al Societății Naționale de Neuroștiințe cu participare internațională "Gheorghe Marinescu", București, România, 1-3 octombrie, 2009, Book of abstracts ISBN:978-973-708-430-9, pag. 53
19. Căpitan F, Șchiopu C, **Șerb A**, Zăgrean AM, Flangea C, Șisu E, Zăgrean L, Zamfir A, Biomarker discovery in human brain hemangioma by fully automated chip-based nanoelectrospray mass spectrometry, Poster Presentation, Al 5-lea Simpozion al Societății Naționale de Neuroștiințe cu participare internațională "Gheorghe Marinescu", București, România, 1-3 octombrie, 2009, Book of abstracts ISBN:978-973-708-430-9, pag.36
20. **Șerb A**, Flangea C, Șisu E, Vukelić Ž, Zamfir AD, Comparative study upon ganglioside pattern in defined regions of normal human brain using (-) nanoESI-QTOF mass spectrometry, Oral Presentation, The 5th conference on condensed matter physics, Timișoara, 16-18 iulie 2008, Ed. Mirton, Book of abstracts ISBN 978-973-52-0404-4, pag.83
21. Flangea C, **Șerb A** Șisu E, Seidler DG, Zamfir AD, Structural investigation of chondroitin sulfate tetrasaccharide motifs by fully automated chip electrospray mass spectrometry, Oral Presentation, The 5th conference on condensed matter physics, Timișoara, 16-18 iulie 2008, Ed. Mirton, Book of abstracts ISBN 978-973-52-0404-4, pag.79
22. Chirita M, **Serb A**, Mosoarca C, Sisu E, Vukelić Ž, Zamfir AD, NanoMate ESI – High Capacity Ion Trap Mass Spectrometer for MS1-MS3 Human Brain Glycosphingolipids Analysis, Poster Presentation, The 5th conference on condensed matter physics, Timișoara, 16-18 iulie 2008, Ed. Mirton, Book of abstracts ISBN 978-973-52-0404-4, pag.82
23. **Șerb A**, Flangea C, Vukelic Ž, Belengeanu V, Rusu V, Șisu E, Zamfir AD, Gangliosides analysis as biological markers for human brain regions by nano-ESI-QTOF mass spectrometry, Poster Presentation, New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, Timișoara, România, 8-9 noiembrie, 2007, Book of abstracts ISBN: 978-973-52-0216-3, pag.17

E. Alte lucrări și contribuții științifice

- lucrări publicate în rezumat în reviste și volume de conferințe fără ISSN/ ISBN:

1. Bozin, Loreta-Andrea, Chis Aimée Rodica, Dragomirescu Anca, Simu Georgeta, Pascariu Mihai-Cosmin, **Georgescu Alina**, Sisu Eugen, TLC and densitometric analysis of methanol extracts from marine algae, The Annual International Conference of the Romanian Society for Biochemistry & Molecular Biology 8 – 9 June 2017, New Frontiers in Chemistry 26 (2017), Timișoara
2. Pascariu Mihai-Cosmin, Rafailă Madian, Medeleanu Mihai, Curpan Ramona, Dincă Nicolae, **Georgescu Alina**, Șisu Eugen, Long bonds involved in EI-MS fragmentation of aldose derivatives predicted using advanced basis sets, The Annual International Conference of the Romanian Society for Biochemistry & Molecular Biology 8 – 9 June 2017, New Frontiers in Chemistry 26 (2017), Timișoara
3. N Dincă, M-C Pascariu, **A Georgescu**, L-A Božin, G Simu, E Șisu; Qualitative chemical analysis possibilities using differential mass spectrometry and quantum chemical calculations", A XXXIV-a Conferință Națională de Chimie, 4-7 octombrie 2016, Căciulata, România
4. I Sisu, L-A Bozin, MC Pascariu, Nicolae D, **A Georgescu**, A Dragomirescu, E Sisu, "ESI-IT-MS characterization of amino acids functionalized with oligosaccharide derivatives", A XXXIV-a Conferință Națională de Chimie, 4-7 octombrie 2016, Căciulata, România
5. **Serb A.F.**, Bozin L., Dema A., Georgescu M., Sisu E., Zamfir A.D, Analysis of glycoconjugates from primary brain tumors using a complex mass spectrometric methodology,

- 9th International Conference on Instrumental Methods of Analysis: Modern Trends and Applications, Kalamata, Grecia, 20-24 Septembrie 2015
6. Neanu C., Bozin L.A., Pascariu M.C., Belengeanu D., Sisu I., **Serb A.**, Sisu E., „Analysis and quantitative evaluation of mono- and dibenzylidene acetal mixtures with pharmaceutical applications”, New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, 8th edition, 4-5 iunie 2015, Timișoara, Romania
 7. Pascariu M.C., Niculescu M., **Serb A.**, Bozin L., Sisu E. „Radical cations in EI-MS analysis of drugs. 1. Riboflavin”, The Academic Days of Arad, 25th edition, 15-17 mai 2015, Arad, România
 8. M.C. Pascariu, L.A. Bozin, **A. Serb**, N. Dinca, M. Niculescu, E. Sișu, “Mass spectrometry fragmentation involving long bonds in some hexoses derivatives”, Al 3-lea simpozion anual de comunicări științifice - "Stability and Reactivity in Coordination Chemistry (in memoriam Mihail Bîrzescu)", 18 septembrie 2015, Timișoara, România
 9. **Serb A.**, Vukelić Ž., Bozin L., Georgescu M., Belengeanu D., Sisu E., Zamfir A., Usage of Advanced Mass Spectrometric Methodology for the Analysis of Glycoconjugates from Human Biological Matrices, Proceedings of The 20th International Symposium on Analytical and Environmental Problems, 22 septembrie 2014, Szeged, Ungaria, pag. 59-62
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