



Curriculum Vitae		
Personal information		
First name / Surname	Adina Magdalena MUSUC	
Address		
Telephone	+40-21-316 7812, ext. 54 (office)	Mobile: +40 072 *****
E-mail	musucadina@yahoo.com; amusuc@icf.ro	
Nationality	Romanian	
Date of birth		
Gender	Female	
Occupational field	Physical Chemistry	
Work experience		
<u>Dates</u> Occupation or position held	2019-present Head of the Chemical Kinetics Department	
<u>Dates</u> Main activities and responsibilities	2016-present Senior Researcher II Scientific Research	
Name and address of employer	Romanian Academy, Ilie Murgulescu Institute of Physical Chemistry, 202 Spl. Independentei, 060021 Bucharest, Romania	
Type of business or sector	Academic research within the Romanian Academy	
<u>Dates</u> Occupation or position held	2019-present Researcher Assistant	
<u>Dates</u> Main activities and responsibilities	Scientific Research	
Name and address of employer	University "Politehnica" of Bucharest Faculty of Chemical Engineering and Biotechnologies 313 Spl. Independenței, 060042 Bucharest, Romania	
Type of business or sector	Research	
<u>Dates</u> Occupation or position held	2008-2016 Senior Researcher III	
<u>Dates</u> Main activities and responsibilities	Scientific Research	
Name and address of employer	Romanian Academy, Ilie Murgulescu Institute of Physical Chemistry, 202 Spl. Independentei, 060021 Bucharest, Romania	
Type of business or sector	Academic research within the Romanian Academy	
<u>Dates</u> Occupation or position held	2002-2008 Scientific Researcher	
<u>Dates</u> Main activities and responsibilities	Scientific Research	
Name and address of employer	Romanian Academy, Ilie Murgulescu Institute of Physical Chemistry, 202 Spl. Independentei, 060021 Bucharest, Romania	
Type of business or sector	Academic research within the Romanian Academy	
<u>Dates</u> Occupation or position held	2000-2002 Researcher Assistant	
<u>Dates</u> Main activities and responsibilities	Scientific research	

Name and address of employer	Romanian Academy, Ilie Murgulescu Institute of Physical Chemistry, 202 Spl. Independentei, Bucharest, Romania
Type of business or sector	Academic research within the Romanian Academy
Dates	1999-2000
Occupation or position held	Trainee Researcher Assistant
Main activities and responsibilities	Scientific research
Name and address of employer	Romanian Academy, Ilie Murgulescu Institute of Physical Chemistry, 202 Spl. Independentei, Bucharest, Romania
Education	
Dates	2023
Title of qualification awarded	Habilitation, Chemistry domain (awarded by the Romanian Ministry of Education and Research, nr. 6356/27.09.2023)
Dates	2007
Title of qualification awarded	PhD, Chemistry domain (awarded by the Romanian Ministry of Education and Research, nr. 1418/29.06.2007)
Name and type of organization providing education and training	University of Bucharest, Faculty of Chemistry, Bucharest, Romania
Title of thesis	Kinetic of explosive decomposition of solids (Supervisor Prof. Dr. Dumitru Oancea)
Dates	2001
Title of qualification awarded	MSc, Environmental quality control domain
Name and type of organization providing education and training	University of Bucharest, Faculty of Chemistry, Bucharest, Romania
Dates	1999
Title of qualification awarded	BSc in Physical Chemistry
Name and type of organization providing education and training	University of Bucharest, Faculty of Chemistry, Bucharest, Romania
Principal subjects/occupational skills covered	Synthesis, and characterization of coordination compounds with isatin ligands (Supervisor Prof. Dr. Angela Kriza)
Training/ acquiring skills:	
Dates	2023
Title of qualification awarded	Advanced training / Certificate
The main studied disciplines / acquired professional competencies	Accessing the European PNRR funds, operational programs, Norwegian funds
Name and type of educational institution / training provider	APSAP training center - National register of continuing education providers
Certification:	The Ministry of Labor and The Ministry of Education
Dates	2023
Title of qualification awarded	Certificate
The main studied disciplines / acquired professional competencies	2nd International CASA Training Courses on Technologies for the Analysis of Carbon Data
Name and type of educational institution / training provider	CASA International Training Courses
Dates	2023
Title of qualification awarded	Certificate of Achievement and Recognition
The main studied disciplines / acquired professional competencies	Successful Completion of the Course Online Cyber Hygiene Training to Protect Your Institution Against Cybertheft of Research and Intellectual Property (IP)

Name and type of educational institution/training provider	CRDF Global
Dates	2021
Title of qualification awarded	Certificate
The main studied disciplines / acquired professional competencies	iS50 Training: Basic Theory and Operation FTIR online qualification course certificate
Name and type of educational institution/training provider	Thermo Fisher Scientific
Dates	2021
Title of qualification awarded	Advanced training / Certificate
The main studied disciplines / acquired professional competencies	Internal/managerial control system
Name and type of educational institution/training provider	APSAP training center - National Register of continuing education providers
Certification:	The Ministry of Labor and The Ministry of Education
Dates	2012
The main studied disciplines / acquired professional competencies	Thermal Analysis and Calorimetry Techniques Workshop
Name and type of educational institution/training provider	Institute of Physical Chemistry "Ilie Murgulescu", Romanian Academy, Bucharest, Romania, organized by SETARAM.
Dates	1999
The main studied disciplines / acquired professional competencies	Introductory course on the Internet
Name and type of educational institution/training provider	Center for Advanced Research in Automatic Learning, Natural Language Processing and Conceptual Modeling, Romanian Academy, Department of Science and Information Technology.
Summer schools	<ul style="list-style-type: none"> - Lyon, France 10 – 15 June 2012 "School of Calorimetry. Calorimetry and thermal methods in catalysis". - "The Combustion Institute Summer School 2013" 19 - 23 August 2013 Lund University, Sweden. - Short Summer School on TA&C, SSS on TA&C, 27th of August 2013, Vilnius, Lithuania. - NETZSCH-Gerätebau GmbH – Individual training seminar, Selb, Germania, February 2018. - The International Combustion Institute Summer School ICISS on Near-Wall Reactive Flows, Virtual summer school, June 7th-10th, 2021, TU Darmstadt, Germany - The 2021 Virtual Session of Princeton-CI Summer School Princeton- Combustion Institute Summer School on Combustion, June 20 to June 25, 2021. - Smart Feed International Winter School Insects and Microalgae as novel feed for Sustainable Livestock Production Digital edition Period: February 15, 23-24th 2022. - Joint European Summer School for Fuel Cell, Electrolyser and Battery Technologies, JESS 2022, Greece 18-24.09.2022. - CoEC Combustion Autumn School 2023, Sofia, Bulgaria, 23-26 October 2023.
Principal subjects/occupational skills covered	Research activity in the field of Chemical kinetics in homogeneous and heterogeneous systems; Combustion and flames of gases; Flammability of gaseous mixtures in air; Safety recommendations, for closed and open systems where deflagrations may occur, Nanomaterials for biomedical applications, materials chemistry, nanocomposites, thermal properties, environmental chemistry, carbohydrates physical and chemical characterization techniques, chemical kinetics, green chemistry; biomass; hydrogels chemistry; pharmaceuticals.
Available experimental techniques	Methods for measuring the ignition and propagation parameters characteristic for gaseous fuel-oxidant mixtures; Methods for synthesis and characterizations of nanomaterials for biomedical applications; Methods of thermal analysis: Thermogravimetry, Differential Scanning Calorimetry, Microcalorimetry, Simultaneous Thermal Analysis; Structural and morphological characterizations of materials: Fourier Transform Infrared Spectroscopy, X-Ray Diffraction, Dynamic light scattering technique; Kinetics; Methods for determining the explosive parameters of solids.

Awards	<ul style="list-style-type: none"> - Nicolae Teclu awarded in 2014 by the Romanian Academy, for scientific papers included in the topic "Experimental study and modelling of explosive reactions in gaseous and condensed systems" issued in 2012. - Gheorghe Spacu award for the scientific career and for the activities to promote chemistry in Romania, issued in 2015, by the Romanian Chemical Society. - Honorary diploma for contributing to the activities of the Romanian Chemical Society to promote chemistry in Romania, issued in 2018, by the Romanian Chemical Society 				
Personal skills and competences					
Mother tongue	Romanian				
Other language(s)	English, French				
Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
French	A1	A1	A1	A1	A1
	(*) <u>Common European Framework of Reference for Languages</u>				
Felds of professional competences	Inorganic Chemistry, Polymer Chemistry, Explosive Condensed Compounds, Green Chemistry, Chemistry of Carbonaceous Materials, Hydrothermal Carbonization, Environmental protection, Pyrolysis of biomass, Bioenergy, Pharmacy, Carbon nanocomposites, Biomedical application, Bioactive materials, Biocompatible materials, Materials for energy, Advanced functional materials, Waste biomass, Hydrocarbon fuel, Drug delivery systems, Biopolymers, Biodegradation, Bioenergy, Hydrogels, Biomedicine.				
Experimental Techniques	Thermal Analysis Techniques (TG, DTG, DSC, STA), Fourier Transform Infrared Spectroscopy, X-ray diffraction, and Dynamic light scattering technique.				
Social skills and competencies	Good teamwork, adaptability, flexibility, responsibility, mediation, and good communication skills. Ability to work efficiently under pressure and ability to interact and communicate.				
Computer skills and competencies	Various dedicated computing programs, Microsoft Office package (Word, Excel, Powerpoint, Publisher, etc.); Internet; access to bibliographic databases; Simulation/optimization programs; Advanced data processing.				
Driving licence	B class (2005)				
Additional information					
Other skills and competencies					
Organisational skills and competencies	Head of Chemical Kinetics Department (leadership skills currently responsible for a team of 10 researchers); good experience in the field of project management and research team.				
Expert evaluator	Expert evaluator for National (UEFISCDI) and European (M-Era Net, EIC accelerator program, SME, Marie Curie fellowship) projects.				
National Register of Experts	Member in the experts' groups from the National Register of Experts for the certification of research and development activity (following the selection process, based on Ministerial Order no. 20242/13.02.2023)				
Reviewer	Reviewer for Inorganica Chimica Acta/ Elsevier, Journal of Thermal Analysis and Calorimetry / Springer, Journal of Material Research/ Cambridge, Dalton Transactions / Royal Society of Chemistry, Materials / MDPI, Composites Part B: Engineering / Elsevier, Journal of Drug Delivery Science and Technology /Science Direct, Sensors /MDPI, etc.), Pharmaceuticals, Water, Energies, Pharmaceuticals, Polymers, Nanomaterials, Processes, Coating, Materials, Membranes, Antioxidants, Nutrients, Water, Gels, Fluids, Applied Sciences/MDPI; Journal of Thermal Analysis and Calorimetry; Arabian Journal of Chemistry; Environmental Nanotechnology, Monitoring & Management; International Journal of Hydrogen Energy; International Journals of Biological Macromolecules; Applied Catalysis B: Environment and Energy; Applied surface science; Arabian Journal Of Chemistry; Bioactive Materials; Food and Bioproducts Processing; Composites Part B: Engineering; Environmental Nanotechnology, Monitoring and Management; Food and Bioproducts Processing; Journal of Proteomics; Nano-Structured \$ Nano-Objects.				

Editorial Boards	<p>Editorial board American Journal of Chemical Engineering (Science PG) 2020 – 2022 Member of the editorial board of Bull Soc de Chim (ISSN 2066-2971) 2022- present Member of Editorial Board of Processes, IF – 3.5, 2024</p> <p>Topical Advisory Panel Member</p> <ul style="list-style-type: none"> - Applied Sciences, MDPI - ISI Journal - 2020 -present - Processes, MDPI - ISI Journal, 2021- January 2024 <p>Guest editor</p> <ul style="list-style-type: none"> - Special Issue - Eco-friendly Synthesized Nanocomposite Materials, Applied Sciences (ISSN 2076-3417) (2020-2021) - Special issue - Green Synthesis, Processing and Application of Nanocomposite Materials 2021, Applied Sciences (ISSN 2076-3417) (2021-2022) - Special Issue - Natural and Synthetic pharmaceutical ingredients: Physico-Chemical Characterization and Drug Development, Applied Sciences (ISSN 2076-3417) (2022-present) - Special Issue - Bio-Based Composite Hydrogels for Biomedical Applications, Processes (ISSN 2227-9717) IF – 3.352 (2022-present) - Special Issue - Biomass-Burning, Fire (ISSN 2571-6255) IF – 2.726 (2022-present) - Special Issue - Recent Advances in Drug and Medical Device Formulations Used for Improving the Quality of Life, Life (2023) - Special issue - New Trends in Nutritional Therapy for Antiaging Management, Nutrients (2023-2024) - Special issue - Processes in 2023, Processes (2023-2024) - Special issue - Hydrogel for Sustained Delivery of Therapeutic Agents, Gels (2023) (ISSN: 2310-2861) (2023) - Special issue - Hydrogel for Sustained Delivery of Therapeutic Agents 2nd edition, Gels (2023) (ISSN: 2310-2861) (2023-2024) - Special Issue "Natural and Synthetic Biomaterials in Biomedical Applications", International Journal of Molecular Sciences (ISSN: 1422-0067) IF – 5.6 (2024)
Technical editing activities	Techno-editor of Bulletin of the Romanian Chemical Society ISSN 2066-2971; No. 2 and 3/2021
Memberships of scientific societies	2000 – present - Member, Romanian Society of Chemistry 2005 - present – Member, European Chemical Sciences (EuCheMS) 2002 – present - Member, Romanian Society of Catalysis 2002 – present – Member, European Federation of Catalysis Societies. 2010 – present - Vice-president of Romanian Society of Chemistry - Bucharest 3 2015 – 2019 - Secretary of Section - Physical Chemistry of Romanian Society of Chemistry 2020 -present - Vice-president of Section - Physical Chemistry of Romanian Society of Chemistry
Member in organizing/scientific committee	2013 – International Conference of Physical Chemistry RomPhysChem 15, 11-13 September 2013, Bucharest, Romania 2016 – International Conference of Physical Chemistry RomPhysChem 16, 21-23 September 2016, Galati, Romania 2018 – 12 th European Symposium on Thermal Analysis and Calorimetry (ESTAC12), 27-30 August 2018, Brasov, Romania 2022 – workshop - Good practices in gastronomy-Healthy cooking techniques, Carol Davila University of Medicine and Pharmacy, Bucharest 2 June 2022, Romania 2023 - the X International Workshop on Medical Imaging Clinical Data Capture and Integration held at the Faculty of Computer Science of the University of A Coruña on 26/01/2023, organized by the Research Group RNASA-IMEDIR, Spain 2023 – International Conference of Physical Chemistry RomPhysChem 17, 25-27 September 2023, Bucharest, Romania 2023 –the 4th International Electronic Conference on Applied Sciences, Part of the International Electronic Conference on Applied Sciences series, 27 Oct–10 November 2023 (online event) 2023 – Integrative and personalized medicine conference, 3 rd Edition, 18-19 October 2023 (online) 2024 – the 5th International Electronic Conference on Applied Sciences, Part of the International Electronic Conference on Applied Sciences series, 4–6 Dec 2024 (online event)

Involvement in research grant/projects/theme	<ul style="list-style-type: none"> - 5 projects as Project leader/manager: 2 grants awarded by UEFISCDI, project leader/manager at 2 Mobility Grants awarded by UEFISCDI, project leader/manager at 1 UPB-Proof of Concept awarded by UPB. - research team member of 19 grants national and international projects. - leader of 23 research themes from the internal plan of Ilie Murgulescu Institute of Physical Chemistry (2009 - present). - leader of a research project "Kinetics of thermal behavior of multifunctional compounds" from internal plan of "Ilie Murgulescu" Institute of Physical Chemistry (2024) - leader of "Chemical kinetics" research program from the internal plan of "Ilie Murgulescu" Institute of Physical Chemistry (2024) - sponsorship contracts No. 1921/26.06.2018 – awarded by Sartorom. - responsible for extrabudgetary contracts - Service contract for scientific research activities, 24.06.2019 with automatic renewal with Labormed-Pharma SA, contract manager. - responsible for student practice collaboration protocol - Responsible and Mentor Collaboration protocol regarding internships of doctoral students and postdoctoral researchers between UPB, ICECON S.A. and ICF.
International cooperation agreements	<ul style="list-style-type: none"> - Agreement of Cooperation with University A Coruña, Spain – "Artificial Intelligence prediction models for anti-cancer nanoparticles" – (leader). - Agreement of Cooperation with PTB (Physikalische-Technische Bundesanstalt), Braunschweig, Germany - Safety Characteristics of Gaseous Mixtures - (member). - Agreement of cooperation with BAM (Bundesanstalt für Materialforschung und -prüfung), Berlin, Germany - Flammability of Fuel/Inert/Oxidant Gaseous Mixtures (member).
Invitations - expert groups	01.10.2018 - European Innovation Council - EIC Experts Day – Brussels, Belgium 07 - 08.11.2023 – as the representative on the Strategic Expert Group workshop in M-ERA.NET 3 consortium – Madrid, Spain
Patents (total)	4 national patents (3 national patents awarded; 1 national patent application in 2022)
Books and book chapters	3 book chapters
Published papers (total)	94 scientific papers: 84 papers published in ISI journals (44 as main author) ; 6 papers in non-ISI journals; 4 papers in Proceedings.
h-index	17 According to Scopus (https://www.scopus.com/authid/detail.uri?authorId=14519647700) 19 according to Google Scholar (https://scholar.google.ro/citations?hl=ro&user=fORkIicAAAAJ)
Citations	770 citations according to Scopus 959 citations according to Google Scholar
Scientific communicated papers	109 presentations (oral presentations and posters) and 3 extended abstracts to National and International Conferences
Volunteer activities	Volunteer in the Bucharest Chemistry Festival, October 15-16, 2022 (Certificate of participation)
ISI-Thomson Researcher ID	C-2485-2011
ORCID ID	0000-0002-6935-8065
Annexes	List of scientific contributions

02.02.2024

Adina Magdalena Musuc

List of Scientific Contributions

Book chapters:

1. D. Gheorghe, E.A. Ozon, **A.M. Musuc**, Comparative analysis of structure-activity relationships of methyl- β -cyclodextrin and hydroxypropyl- β -cyclodextrin inclusion complexes with some drugs, X International Scientific Conference «ACTUAL PROBLEMS OF SOLID STATE PHYSICS» (APSSP-2023) May 22-26, 2023, Minsk (Belarus). Actual Problems of Solid-State Physics: [Electronic resource]: proc. book X Intern. Scient. Conf., Minsk, 22-26 May, 2023 / SSPA «Scientific-Practical Materials Research Centre of NAS of Belarus»; ed.: V. M. Fedosyuk (chairman) [et al.]. – Minsk: Publisher A.Varaksin, 2023. – 1 electronic optical disc (CD-ROM). ISBN 978-985-7202-53-09, pp. 432-435.
2. **A.M. Musuc**, B. S. Vasile, Chapter 6 - Therapeutic polymer gel system in neural tissue engineering, Editor(s): Oguzhan Gunduz, Cem Bulent Ustundag, Mustafa Sengor, In Woodhead Publishing Series in Biomaterials, Biomaterials for Neural Tissue Engineering, Woodhead Publishing, 2023, Pages 151-172, ISBN 9780323905541, <https://doi.org/10.1016/B978-0-323-90554-1.00014-8>.
3. **A.M. Musuc**, V.T.Popa, Chapter 3. Rosmarinus officinalis: A Natural Additive in Active and Biodegradable Food Packaging in Agricultural Research Updates. Volume 25, pp. 91-125, Prathamesh Gorawala and Srushti Mandhatri Editors, ISBN: 978-1-53614-790-2 (eBook), ISSN: 2160-1739, 2019, Nova Science Publishers, Inc New York.

Paper in Scientific Journals:

ISI papers:

84. M.Mititelu, C.P. Cobelschi, E. Gheorghe, S.M.Neacsu, C.-T. Streba, A.Miihai, **A.M.Musuc**, O.Taifun, A.Cauni, G.Olteanu, S.S. Busnatu, D.E. Dumitrescu, M.Ghica, Evaluation of nutritional status and adherence to a healthy diet among the Romanian population, *Farmacia*, 2023, 71(5), 980-990. <https://doi.org/10.31925/farmacia.2023.5.13>. IF- 1.6
83. M. Chelu, **A. M. Musuc** *, *Advanced biomedical applications of multifunctional natural and synthetic biomaterials, Processes*, 2023, 11, 2696. <https://doi.org/10.3390/pr11092696> IF – 3.5 (**corresponding author**)
82. E. A. Ozon†, I. Sarbu†, V.Popovici *, M. A. Mitu *, **A.M. Musuc**, O. Karampelas, B. Ş. Velescu, Three-Dimensional Printing Technologies in Oral Films Manufacturing—A Minireview. *Processes* 2023, 11, 2628. <https://doi.org/10.3390/pr11092628>. IF – 3.5
81. M. Mititelu†, C.-N. Oancea†, S. M. Neacsu†, **A. M. Musuc†**, T. C. Gheonea*, T. I. Stanciu*, I. Rogoveanu*, F. Hashemi, G. Stanciu, C.-B. Ioniță-Mindrican, I. Belu, N. Măru, G. Olteanu, A.-T. Cîrțu, I. Stoicescu and C. E. Lupu, *Evaluation of Junk Food Consumption and the Risk Related to Consumer Health Among the Romanian Population, Nutrients*, IF – 5.9 (**Corresponding author**)
80. M. Chelu†, **A.M. Musuc** *, M.Popa † and J.M. Calderon Moreno *, *Chitosan hydrogels for water purification applications, Gels* IF- 4.6 (Q1) (**Corresponding author**)
79. T. O. Nicolescu†, G. Stanciu†, M. Mititelu†, **A. M.Musuc***, L. Iscrulescu, D. P. Mihai, F. Nicolescu, *Synthesis, spectral characterization and molecular docking studies of new N₃-aryl- and N₃-alkyl barbituric acid derivatives with potential local anaesthetic action, Farmacia*, 2023, Vol. 71, 4, <https://doi.org/10.31925/farmacia.2023.4.xx> IF- 1.6 (**Corresponding author**)
78. Elian, V.; Popovici, V.; Ozon, E.-A.; **Musuc, A.M.**; Fița, A.C.; Rusu, E.; Radulian, G.; Lupuliasa, D. Current Technologies for Managing Type 1 Diabetes Mellitus and Their Impact on Quality of Life—A Narrative Review. *Life* 2023, 13, 1663. <https://doi.org/10.3390/life13081663>. IF – 3.2
77. Moroșan, E. †; Lupu, C.E. †; Mititelu, M. *; **Musuc, A.M.** *; Rusu, A.I. †; Răducan, I.D. †; Karampelas, O.; Voinicu, I.B.; Neacsu, S.M.; Licu, M. †; et al. *Evaluation of the Nutritional Quality of Different Soybean and Pea Varieties: Their Use in Balanced Diets for Different Pathologies. Appl. Sci.* 2023, 13, 8724. <https://doi.org/10.3390/app13158724> IF - 2.7 (**Corresponding author**)
76. Ozon, E.A. †; Iuga, I.D.M.; Mititelu, M. *; **Musuc, A.M.** *; Manolescu, B.N. †; Petrescu, S.; Cusu, J.P.; Rusu, A.; Surdu, V.-A.; Oprea, E.; et al. *Pharmacotechnical, Physico-Chemical, and Antioxidant Evaluation of Newly Developed Capsule Formulations. Int. J. Mol. Sci.* 2023, 24, 11426. <https://doi.org/10.3390/ijms241411426>. I.F. – 5.6 (**Corresponding author**)
75. Chelu, M. †*; Popa, M. †; Calderon Moreno, J. *; Leonties, A.R.; Ozon, E.A.; Pandele Cusu, J.; Surdu, V.A.; Aricov, L.; **Musuc, A.M.** * *Green Synthesis of Hydrogel-Based Adsorbent Material for the Effective Removal of Diclofenac Sodium from Wastewater. Gels* 2023, 9, 454. <https://doi.org/10.3390/gels9060454> I.F. – 4.432 (**Corresponding author**)
74. Chelu, M. †; **Musuc, A.M.***; Popa, M. †; Calderon Moreno, J. * *Aloe vera-Based Hydrogels for Wound Healing: Properties and Therapeutic Effects. Gels* 2023, 9, 539. <https://doi.org/10.3390/gels9070539> I.F. – 4.432 (**Corresponding author**)
73. Chelu, M. †; Popa, M. *; Ozon, E.A. †; Pandele Cusu, J.; Anastasescu, M.; Surdu, V.A.; Calderon Moreno, J. *; **Musuc, A.M.** * *High-Content Aloe vera Based Hydrogels: Physicochemical and Pharmaceutical Properties. Polymers* 2023, 15, 1312. <https://doi.org/10.3390/polym15051312>. I.F – 4.967 (**Corresponding author**)
72. Chelu, M.; **Musuc, A.M.** * *Polymer Gels: Classification and Recent Developments in Biomedical Applications. Gels* 2023, 9, 161. <https://doi.org/10.3390/gels9020161>. I.F. – 4.432 (**Corresponding author**)
71. Chelu, M.; **Musuc, A.M.** *; Aricov, L.; Ozon, E.A.; Iosageanu, A.; Stefan, L.M.; Prelipcean, A.-M.; Popa, M.; Moreno, J.C. * *Antibacterial Aloe vera Based Biocompatible Hydrogel for Use in Dermatological Applications. Int. J. Mol. Sci.* 2023, 24, 3893. <https://doi.org/10.3390/ijms24043893>. I.F. – 6.208 (**Corresponding author**)

70. Suci, F. †; Stoicescu, I. *, Lupu, E.C. *, **Musuc, A.M.** *, Popescu, A. †; Mițitelu, M. †; Roșca, A.C.; Dumitrescu, D.-E.; Badea, F.C.; Caraiane, A.; Badea, V. HPLC Analysis of Polyphenolic Compounds in *Lysimachia nummularia* L. and Comparative Determination of Antioxidant Capacity. *Appl. Sci.* 2023, 13, 2159. <https://doi.org/10.3390/app13042159>. I.F. – 2.838 (**Corresponding author**)
69. V.Popovici, **A. M. Musuc**, E. Matei, O. Karampelas, E. A. Ozon, G. C. Cozaru, V. Schroder, L. Bucur, L. Aricov, M. Anastasescu, M. Aschie, V.Badea, D. Lupuliasa, C. E. Gird, ROS-Induced DNA-Damage and Autophagy in Oral Squamous Cell Carcinoma by *Usnea barbata* Oil Extract – an In Vitro Study, *Int. J. Mol. Sci.*, 2022, 23(23), 14836, <https://doi.org/10.3390/ijms232314836> I.F.= 6.208 (equal contribution with first author)
68. K. Ziani, C. Negrei, C.-B. Ioniță-Mîndrican, **A. M. Musuc**, V. P. Predoi, D. I. Udeanu, M. Mițitelu, Drug-Food Interactions: the influence on the patient's therapeutic plan, *Farmacia*, 2022, 70(5) 785-797. <https://doi.org/10.31925/farmacia.2022.5.3>, I.F. = 1.55 (equal contribution with first author)
67. A. C. Fița, A.A.Secăreanu, **A.M. Musuc**, E. A. Ozon, I. Sarbu, I. Atkinson, A.Rusu, E. Mati, V. Anuta, A. L. Pop, The influence of the polymer type on the quality of newly developed oral immediate-release tablets containing amiodarone solid dispersions obtained by hot-melt extrusion, *Molecules* 2022, 27, 6600. <https://doi.org/10.3390/molecules27196600> I.F. – 4.927 (**Corresponding author**)
66. Popovici, V.; Matei, E.; Cozaru, G.C.; Bucur, L.; Gird, C.E.; Schröder, V.; Ozon, E.A.; **Musuc, A.M.**; Mitu, M.A.; Atkinson, I.; Rusu, A.; Petrescu, S.; Mitran, R.-A.; Anastasescu, M.; Caraiane, A.; Lupuliasa, D.; Aschie, M.; Badea, V. In Vitro Anticancer Activity of Mucoadhesive Oral Films Loaded with *Usnea barbata* (L.) F. H. Wigg Dry Acetone Extract, with Potential Applications in Oral Squamous Cell Carcinoma Complementary Therapy. *Antioxidants* 2022, 11, 1934. <https://doi.org/10.3390/antiox11101934>. I.F. – 7.675 (**Corresponding author**)
65. Ioniță-Mîndrican, C.-B.; Mițitelu, M.; **Musuc, A.M.**; Oprea, E.; Ziani, K.; Neacșu, S.M.; Grigore, N.D.; Negrei, C.; Dumitrescu, D.-E.; Mireșan, H.; Roncea, F.N.; Ozon, E.A.; Măru, N.; Drăgănescu, D.; Ghica, M. Honey and Other Beekeeping Products Intake among the Romanian Population and Their Therapeutic Use. *Appl. Sci.* 2022, 12, 9649. <https://doi.org/10.3390/app12199649>. I.F. – 2.838 (**Corresponding author**)
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