

## Curriculum vitae Europass



### Personal information

Name / Surname

Address(es)

Phone

Fax

E-mail

Nationality

Date of birth

Gender

**MUNTEANU Florentina-Daniela**

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Romanian

Female

### Professional experience

*Period*

Occupation or post held

Main activities and responsibilities

*July 2023 – present*

Member of the permanent commission for Engineering Sciences II  
Romanian Agency for Quality Assurance in Higher Education, ARACIS

*Period*

Occupation or post held

Main activities and responsibilities

*September 2020 - present*

Director Council for Doctoral Studies  
coordination of activities related to the conduct of doctoral studies

*Period*

Occupation or post held

Main activities and responsibilities

*June 2019 - September 2020*

Acting Director Doctoral Studies Council  
coordinating activities related to the conduct of doctoral studies

*Period*

Occupation or post held

Main activities and responsibilities

*April 2016 - June 2019*

Director Quality Assurance and Improvement Department  
implementing and maintaining a quality management system in line with national and international quality assurance practices and the University's quality policies.

*Period*

Occupation or post held

Main activities and responsibilities

*March 2008-February 2016*

Vice-Rector for Scientific Research – "Aurel Vlaicu" University of Arad  
Coordination, guidance and control of scientific research activity at the university  
Member of the admissions committee, responsible for reporting on recruitment activity and management of enrolled candidates

*Period*

Occupation or post held

Main activities and responsibilities

*May 2014-present*

Quality Management Representative (ISO 9001:2008, ISO 9001:2015) – "Aurel Vlaicu" University of Arad  
Coordinating and controlling the functioning of the quality management structure

*Period*

Occupation or post held

Main activities and responsibilities

*October 2019 - present*

PhD students' supervision – „Aurel Vlaicu,, University of Arad  
Coordination of PhD students in the field of Environmental Engineering

*Period*

Occupation or post held

Main activities and responsibilities

*October 2010 - present*

Coordinator of the master's degree program Quality Management of Food Products  
Student enrollment, document collection and management of activities of master students in this program  
Informing master students and distributing to them information on the educational and research process

*Period*

Occupation or post held

Main activities and responsibilities

*October 2018 - September 2019*

PhD students' supervision – „Vasile Alecsandri” University of Bacău  
Coordination of doctoral students in the field of Environmental Engineering

*Period*

Occupation or post held

Main activities and responsibilities

*March 2008 - present*

University Professor  
Teaching, research and publication of research results. Administrative activities: coordinator or member of executive committees (license, dissertation, admission)

*Period*

Occupation or post held

Main activities and responsibilities

*March 2006 - February 2008*

Associate Professor  
Teaching, research and publication of research results. Administrative activities: coordinator or member of executive committees (bachelor, dissertation)

*Period*

Occupation or post held

Main activities and responsibilities

*October 2005 - February 2006*

Researcher - Biosensors with applications in environmental protection  
Teaching, research and publication of research results. Administrative activities: coordinator or member of executive committees (license, dissertation, admission)

## Education and training

<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>February 2017</b> Internal Auditor for Quality Management Systems TÜV Rheinland
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>June 2014</b> TÜV Rheinland Quality Management Systems Specialist
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>March 2011</b> University management training module Babeş-Bolyai University
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>April 2007</b> Internal auditor for environmental management systems (SR EN ISO 14001:2005)  TÜV Rheinland
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>February 2003-October 2005</b> Postdoctoral traineeship  University of Minho, Portugal
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>January 1998-September 2002</b> PhD Chemistry  Lund University, Sweden
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>September-December 2007</b> Researcher  Lund University, Sweden
<b>Period</b> <b>Qualification/diploma obtained</b> <b>Name of the educational institution / training provider</b>	<b>Februarie 1997-Iunie 1997</b> Magister  Lund University, Sweden

**Period**  
**Qualification/diploma**  
**obtained**  
**Name of the educational**  
**institution / training**  
**provider**

**Period**  
**Qualification/diploma**  
**obtained**  
**Name of the educational**  
**institution / training**  
**provider**

**Personal skills and competences**

**Mother tongue**

**Foreign languages known**

**Self-assessment**  
**European level (\*)**

**English**

**Swedish**

**French**

**Organizational skills/  
 managerial**

**Social competences and skills**

**Competences and skills  
 organizational**

**Technical skills and competences**

**October 1996-June 1997**

Master  
 University of Bucharest

**October 1991 - June 1996**

Licentiate in Chemistry  
 University of Bucharest

**Romanian**

Comprehension				Speaking				Writing	
Listening		Reading		Taking part in conversation		Oral discourse		Written expression	
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(\*) *Common European Framework of Reference for Foreign Languages level*

- Project management
- Scientific research management
- Quality management

Communication skills acquired as a university teacher.  
 Knowledge of education and research legislation

Ability to work in a team acquired in project activities and planning, organizing and coordinating skills acquired in further training courses, project manager activities, coordinating activities for final year work (bachelor, master, doctorate) and drafting and publishing research papers.

Leadership skills, good organizer, ability to develop, write and carry out complex multidisciplinary projects, acquired as a result of 12 years in university management positions and participation in 25 projects (grants), of which 9 as project manager. Documentation and scientific writing skills (51 papers in WoS, 1366 citations).

Assembling and troubleshooting of laboratory equipment, PCs and accessories (printer, scanner, fax, copier) acquired in more than 20 years of experience in education and research.

## Digital Skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Security	Problem solving
Experienced	Experienced	Experienced	Experienced	Experienced
Responsible for the University Management Information Technology Platform implemented at "Aurel Vlaicu" University of Arad				
B				

## Driving licence

## Supplementary Information

ResearcherID: **B-5791-2008**

Hirsch Index: **19 (WoS), 19 (Scopus), 22 (Google Scholar)**

Număr total de citări Web of Science: **1331**

Publicații: 51 lucrări în WoS, 35 ca autor principal (din care 35 în reviste cu FI > 1)

Reviewer: Electrochimica Acta, Ultrasonics Sonochemistry, Analytical Letters, Textile Research Journal, Industrial & Engineering Chemistry Research, etc.

Evaluator: ARACIS, proiecte UEFISCDI, PC7, H2020

Membru: Societatea Română de Chimie (*Vicepreședinte filiala ARAD*), Asociația pentru Cercetare

Multidisciplinară, Societatea Națională de Știința și Ingineria Mediului – SNSIM

## Experience (including managerial) in international/ national projects

### Project coordination

#### International:

- 2009-2013- **FP7- NMP-2008-LARGE-2, Proiect No 228827- Folate-based nanobiodevices for integrated diagnosis therapy targeting chronic inflammatory diseases**
- 2006-2009- Contract de Cercetare **NATO Nr. EAP.RIG.982234** entitled „*Biosensors for Environmental Pollutants Monitoring*”
- 2004-2005 - **SFRH/BPD/16674/2004**, Portugalia „*Electrochemical Characterization of Redox Biodegradation of Redox Dyes*” (derulat în cadrul Minho University)

#### National:

- 2018-2020- PN-III-P1-1.2-PCCDI2017-0569 - "*Closing the supply chains bioeconomy value chains by obtaining innovative bioproducts required by the market -PRO-SPER*", - 10- PCCDI/2018
- 2017-2018 - PN3, Romania-France Bilateral Cooperation Projects, BM46, *Valorization of wine-making by-products - applications for wastewater treatment*
- 2014-2017- PN2, Collaborative Applied Research Projects, PN-II-PT- PCCA- 2013-4-0191 *Interactomics of galactosaminoglycans in the extracellular matrix by advanced mass spectrometry*
- 2010-2012- PN2, Capacities, Module III, - *Folate-based nanobiodevices for integrated diagnosis therapy targeting chronic inflammatory diseases*

8. 2006-2008 - Research of excellence entitled "*Computerized ultrasound-activated and biosensor-controlled ultrasound-activated filtration and separation systems for textile processes*"
9. 2005 -2007 - Contract Research of excellence Nr. 3179/12.10.2005 entitled "*Electrochemical Characterization and Kinetic Study of Biodegradation of Environmental Pollutants*"

**Research team member:**

**International projects**

10. 2015-2017 - EEA Grants, through the European Economic Area (EEA) Financial Mechanism, Program RO 02, Biodiversity and Ecosystem Services, *Halting the spread of invasive plant species in the Lunca Mures Natural Park*"
11. 2004 - NNP2-CT-2003-505892, ULTRATEC, „*Ultrasound Assisted Enzymatic Processing of Textiles*”
12. 1998 – FP4- „*Prussian blue based novel highly selective chemical and biological sensors for food control*”
13. 1997 - BIO4-CT97-2199 „*Directly interfaced and micro or nanostructured detection systems*”

**National projects**

14. September 2021-present - **Operational Program Competitiveness**, Research center in sustainable bio-eco-economy, Contract no. POC/448/1/1/1/Major CD Infrastructures/1/Major CD Infrastructures/1/128019
15. November 2020-September 2021 - **Human Capital Operational Program**, Priority Axis 6: Education and Skills, Integrated measures for the transition of students into the labor market, Contract no. POCU/626/6/13/132639
16. October 2020-February 2021- "Skills make the difference! Project selected under the **Operational Program "Administrative Capacity"** co-funded by the European Union from the European Social Fund - Improving public policies in higher education and increasing the quality of regulations by updating QAFIN quality standards, code SIPOCA 16
17. 2017-2018- PN-III-P2-2.1-PTE- 2016-0217- Demonstration plant for an innovative hemp melting technology
18. 2016-2019 – Novel Bio-inspired Cellular Nano-Architectures (BioCell- NanoART), **POC- A1-A1.1.3-E-2015**
19. 2014-2015 - Research Center for Technical and Natural Sciences CESTN", project co-funded by the European Union through the European Regional Development Fund within the framework of the **Sectorial Operational Program "Increasing Economic Competitiveness": INVESTMENTS FOR YOUR FUTURE**
20. 2014-2015 - **POSDRU - Priority Axis 5 "Promotion of active employment measures"**, Major Field of Intervention 5.1. "Development and implementation of active employment measures in the West Region" 131980 - RE-ACTIVE ON THE JOB MARKET! Professional integration of disadvantaged groups in the labor market
21. 2010-2013- **Sectorial Operational Program Increasing Economic Competitiveness**, Priority Axis 2 - Competitiveness through RDI, Operation 2.1.2: "High scientific level CD projects with the participation of specialists from abroad": Liberian plants - strategic renewable resources for the European economy – BASTEURES
22. 2006-2008- **Research of Excellence** CEEX consortium; Affiliation : VIASAN;"Determination of the expression of complex glycosphingolipids in the central nervous system by polyfunctional integrated microchip devices coupled with high performance mass spectrometry"
23. 2006-2008- **Research of excellence** -."Integration of a Romanian center of high-performance biomedical mass

spectrometry in the international and European research area"

24. 2006-2009- **Research of excellence** - Module 3 "Scientific partnership in the field of nanosciences and nanotechnologies applied in textiles"
25. 2006-2007- Research of excellence CEEEX consortium "New technologies applied to fibers materials using chemical and enzymatic processes in ultrasound to obtain high performance materials. AcronymTENZINUS""
26. 2006-2008- **Research of excellence** - Module 3 "Regional Network of Excellence in the field of micro-nano-bio-technologies and textile materials for medical applications: Acronym EUROTExMED"
27. 2006-2008- **Research of excellence** CEEEX consortium "Polyoxometalated compounds (POM) with oxidative catalytic activity for cutting-edge applications. ACRONYM: POMALB"
28. 2006 - Elaboration of a feasibility study in order to solve the neutralization of the landfill in Arad" contract between Arad City Hall and "Aurel Vlaicu" University

23.09.2024

**Prof. univ. dr. hab. Munteanu Florentina-Daniela**

## L I S T A

### lucrărilor științifice

**Prof. univ. dr. hab. Munteanu Florentina-Daniela – Dr. din 2002, Profesor  
Universitar din 2008, abilitare din 2018**

#### A. Teza de doctorat/abilitare

1. **Teza de doctorat: Munteanu Florentina-Daniela, 2002, *Studies of Electrocatalytic Reactions of NADH at Mediator Modified Electrodes and of H<sub>2</sub>O<sub>2</sub> at Peroxidase Modified Electrodes*, Conducător științific: Prof. Univ. Dr. Lo Gorton, Universitatea Lund, Suedia**
2. **Teza de abilitare: Munteanu Florentina-Daniela, 2018, *Tehnici avansate de monitorizare și prevenire a poluării mediului***

#### B. Cărți și capitole publicate

- B1. Florentina-Daniela Munteanu, *Studies of Electrocatalytic Reactions of NADH at Mediator Modified Electrodes and of H<sub>2</sub>O<sub>2</sub> at Peroxidase Modified Electrodes*, 2002 (ISBN 91-7422-005-5), KFS Lund, Universitatea Lund Suedia**
- B2. Munteanu Florentina-Daniela, *Fundamental and Applied Research on Recombinant and Wilde type Horseradish Peroxidase Based Biosensors*, Tipografia Universității Lund, Suedia 1997**
- B3. Annika Lindgren, Tautgirdas Ruzgas, Leonard Stoica, Florentina-Daniela Munteanu, and Lo Gorton *Cellobiose Dehydrogenase and Peroxidase Biosensors for Determination of Phenolic Compounds în Chemical and Biological Sensors for Environmental Monitoring*, A. Mulchandani and O. A. Sadik (Eds), ACS Symposium Series, vol. 762, 113.**
- B4. Munteanu Florentina-Daniela, Nicolae Dincă, Artur Cavaco-Paulo, *MALDI-ToF Mass Spectrometry in Textile Industry*, Springer Verlag, ISBN 978-1-4020-8811-7**
- B5. Ioan Calinovici, Florentina-Daniela Munteanu, Monica Lungu, Virgil Ciutină, *Strategia de Combatere a plantelor invazive*, <http://sesil.eu/ro>**



### C. Lucrări indexate ISI/BDI publicate

- C1. Bud F., Perța-Crișan S., Ursachi C.S., Gavrilas S., **Munteanu F.D.**, *Wastewater Global Pollution Index as an Indicator in Assessing the Quality of the Effluent from the Arad Municipal Treatment Plant*, **Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.** 2024, 25 (3)
- C2. Chereji B.-D., **Florentina-Daniela Munteanu**, *Wool-Based Filters for the Retaining of Heavy Metals from Industrial and Contaminated Wastewater*, **Scientific Papers. Series B. Horticulture**, 2024, LXVIII, 1, 699-704
- C3 Hărățau R.C., Perța-Crișan S., Ursachi C.S., Gavrilas S., **Munteanu F.D.**, *Source Risk Assessment for Heavy Metals in Soil on the Site of a Hydrocarbon Power Plant*, **Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.** 2024, 25 (2), 203-214, doi.org/10.29081/ChIBA.2024.595
- C4. Ursachi C.-Ș., Perța-Crișan, S., Tolan I., Chambre D. R., Chereji B.-D., Condrat D., **Florentina-Daniela Munteanu**, *Development and Characterization of Ethylcellulose Oleogels Based on Pumpkin Seed Oil and Rapeseed Oil*, **Gels** 2024, 10(6), 384, doi.org/10.3390/gels10060384
- C5. Godja, N.C.; Munteanu, F.D. *Hybrid Nanomaterials: A Brief Overview of Versatile Solutions for Sensor Technology in Healthcare and Environmental Applications*. **Biosensors-Basel** 2024, 14, 23, doi:10.3390/bios14020067.
- C6. Perța-Crișan, S.; Ursachi, C.S.; Chereji, B.D.; Tolan, I.; **Munteanu, F.D.** *Food-Grade Oleogels: Trends in Analysis, Characterization, and Applicability*. **Gels** 2023, 9, 42, doi:10.3390/gels9050386.
- C7. Perța-Crișan, S.; Ursachi, C.S.; Chereji, B.D.; **Munteanu, F.D.** *Oleogels-Innovative Technological Solution for the Nutritional Improvement of Meat Products*. **Foods** 2023, 12, 21, doi:10.3390/foods12010131.
- C8. Castro, T.G.; Ferreira, T.; Matamá, T.; **Munteanu, F.D.**; Cavaco-Paulo, A. *Acetylation and phosphorylation processes modulate Tau's binding to microtubules: A molecular dynamics study*. **Biochim. Biophys. Acta-Gen. Subj.** 2023, 1867, 14, doi:10.1016/j.bbagen.2022.130276.
- C9. Blidar, E.V.; Gavrilas, S.; Ursachi, C.S.; Perța-Crișan, S.; **Munteanu, F.D.** *Perceptions on Drinking Water and Wastewater in a Local Area in Western Romania*. **Appl. Sci.-Basel** 2023, 13, 13, doi:10.3390/app132011401.
- C10. Gavrilas, S.; Ursachi, C.S.; Perța-Crișan, S.; **Munteanu, F.D.** *Recent Trends in Biosensors for Environmental Quality Monitoring*. **Sensors** 2022, 22, 19, doi:10.3390/s22041513.

- C11. Gavrilas, S.; Calinovici, I.; Chis, S.; Ursachi, C.S.; Rat, M.; **Munteanu, F.D.** *White Grape Pomace Valorization for Remediating Purposes.* **Appl. Sci.-Basel** 2022, 12, 15, doi:10.3390/app12041997.
- C12. Chereji, B.D.; **Munteanu, F.D.** *The Impact of Sheep Waste Wool on The Environment.* **Sci. Pap.-Ser. E-Land Reclam. Earth Obs. Surv. Environ. Eng.** 2022, 11, 458-463.
- C13. Burca, V.; Csorba, L.M.; **Munteanu, F.D.**; Rusu, S. *The Romanian consumers' perception regarding the safety of dietary supplements.* **J. Public Health-Heidelberg** 2022, 30, 1583-1602, doi:10.1007/s10389-020-01425-6.
- C14. Ursachi, C.S.; **Munteanu, F.D.**; Cioca, G. *The Safety of Slaughterhouse Workers during the Pandemic Crisis.* **Int. J. Environ. Res. Public Health** 2021, 18, 10, doi:10.3390/ijerph18052633.
- C15. Popitanu, C.; Cioca, G.; Copolovici, L.; Iosif, D.; **Munteanu, F.D.**; Copolovici, D. *The Seasonality Impact of the BTEX Pollution on the Atmosphere of Arad City, Romania.* **Int. J. Environ. Res. Public Health** 2021, 18, 11, doi:10.3390/ijerph18094858.
- C16. Perta-Crisan, S.; Ursachi, C.S.; Gavrilas, S.; Oancea, F.; **Munteanu, F.D.** *Closing the Loop with Keratin-Rich Fibrous Materials.* **Polymers** 2021, 13, 26, doi:10.3390/polym13111896.
- C17. Constantin, O.E.; Milea, A.S.; Bolea, C.; Mihalcea, L.; Enachi, E.; Copolovici, D.M.; Copolovici, L.; **Munteanu, F.**; Bahrim, G.E.; Râpeanu, G. *Onion Allium cepa L. peel extracts characterization by conventional and modern methods.* **Int. J. Food Eng.** 2021, 17, 485-493, doi:10.1515/ijfe-2020-0310.
- C18. Ursachi, C.S.; Perta-Crisan, S.; **Munteanu, F.D.** *Strategies to Improve Meat Products' Quality.* **Foods** 2020, 9, 22, doi:10.3390/foods9121883.
- C19. Ion, S.G.; Brudiu, T.; Hanganu, A.; **Munteanu, F.**; Enache, M.; Maria, G.M.; Tudorache, M.; Parvulescu, V. *Biocatalytic Strategy for Grafting Natural Lignin with Aniline.* **Molecules** 2020, 25, 14, doi:10.3390/molecules25214921.
- C20. Gavrilas, S.; Ursachi, C.S.; Dochia, M.; Perta-Crisan, S.; **Munteanu, F.D.** *The Influence of Different Vacuum Impregnation Solutions on the Colour of Fresh-Cut Apple Slices.* **Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.** 2020, 21, 523-531.
- C21. Nastuneac, V.; Panainte-Lehadus, M.; Mosnegutu, E.F.; Gavrilas, S.; Cioca, G.; **Munteanu, F.D.** *Removal of Cypermethrin from Water by Using Fucus Spiralis Marine Alga.* **Int. J. Environ. Res. Public Health** 2019, 16, 9, doi:10.3390/ijerph16193663.

- C22. Nastuneac, V.; Gavrilas, S.; **Munteanu, F.D.** *Assesment of the Water Quality in Siret Hydrographic Basin. Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.* 2019, 20, 471-480.
- C23. Cioca, G.; **Munteanu, F.D.** *Estimation of the Amount of Disposed Antibiotics. Sustainability* 2019, 11, 9, doi:10.3390/su11061800.
- C24. Castro, T.G.; **Munteanu, F.D.**; Cavaco-Paulo, A. *Electrostatics of Tau Protein by Molecular Dynamics. Biomolecules* 2019, 9, 16, doi:10.3390/biom9030116.
- C25. Andrei, V.; Copolovici, D.; **Munteanu, F.D.**; Wetie, A.G.N.; Mihai, I.; Darie, C.C.; Vasilescu, A. *Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry. In Advancements of Mass Spectrometry in Biomedical Research, 2nd Edition, Woods, A.G., Darie, C.C., Eds.; Advances in Experimental Medicine and Biology; Springer International Publishing Ag: Cham, 2019; Volume 1140, pp. 665-684.*
- C26. **Munteanu, F.D.**; Titoiu, A.M.; Marty, J.L.; Vasilescu, A. *Detection of Antibiotics and Evaluation of Antibacterial Activity with Screen-Printed Electrodes. Sensors* 2018, 18, 26, doi:10.3390/s18030901.
- C27. Bucur, B.; **Munteanu, F.D.**; Marty, J.L.; Vasilescu, A. *Advances in Enzyme-Based Biosensors for Pesticide Detection. Biosensors-Basel* 2018, 8, 28, doi:10.3390/bios8020027.
- C28. **Munteanu, F.D.**; Sanislav, A.; Stanescu, M.D. *Coupled Electrochemical and Enzymatic Degradation of Two Anthraquinone Dyes. Rev. Roum. Chim.* 2015, 60, 233-239.
- C29. Sirghie, C.; Bodescu, A.M.; Botar, A.; Cavaco-Paulo, A.; **Munteanu, F.D.** *Characterization of ligno-cellulosic materials bleached with oxo-diperexo-molybdates. Carbohydr. Polym.* 2013, 98, 490-494, doi:10.1016/j.carbpol.2013.06.021.
- C30. Fernandes, M.M.; Gomes, A.C.; Vasconcelos, A.; **Munteanu, F.D.**; Tzanov, T.; Gonçalves, M.S.T.; End, N.; Schoening, K.U.; Guebitz, G.M.; Cavaco-Paulo, A. *Protein disulphide isomerase-assisted functionalization of keratin-based matrices. Appl. Microbiol. Biotechnol.* 2011, 90, 1311-1321, doi:10.1007/s00253-011-3194-6.
- C31. **Munteanu, F.D.**; Cavaco-Paulo, A. *Biosensors Based on Laccase for Detection of Commercially Reactive Dyes. Anal. Lett.* 2010, 43, 1126-1131, doi:10.1080/00032710903518567.
- C32. **Munteanu, F.D.**; Ferreira, P.; Ruiz-Dueñas, F.J.; Martínez, A.T.; Cavaco-Paulo, A. *Bioelectrochemical investigations of aryl-alcohol oxidase from Pleurotus eryngii. J. Electroanal. Chem.* 2008, 618, 83-86, doi:10.1016/j.jelechem.2008.02.023.
- C33. Tzanov, T.; **Munteanu, F.D.**; Cavaco-Paulo, A. *CELL 130-Isomerases for functional modification of fibrous polymers. Abstr. Pap. Am. Chem. Soc.* 2007, 233, 674-674.

- C34. **Munteanu, F.D.**; Dinca, N.; Cavaco-Paulo, A. *MALDI-ToF Mass Spectrometry In Textile Industry*. in **Proceedings of the NATO Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety**, Arad, ROMANIA, Sep 24-27, 2007; pp. 193-+.
- C35. **Munteanu, F.D.**; Basto, C.; Gübitz, G.M.; Cavaco-Paulo, A. *Staining of wool using the reaction products of ABTS oxidation by Laccase:: Synergetic effects of ultrasound and cyclic voltammetry*. **Ultrason. Sonochem.** 2007, 14, 363-367, doi:10.1016/j.ultsonch.2006.07.008.
- C36. **Munteanu, F.D.**; Gligor, D.; Popescu, I.C.; Gorton, L. *Formate dehydrogenase-modified carbon paste electrodes for amperometric detection of formate*. **Rev. Roum. Chim.** 2006, 51, 25-30.
- C37. Fernandes, M.; Basto, C.; Zille, A.; **Munteanu, F.**; Guebitz, G.M.; Cavaco-Paulo, A. *POLY 441-Sono-enzymatic polymerization of catechol*. **Abstr. Pap. Am. Chem. Soc.** 2006, 232, 1.
- C38. Zille, A.; **Munteanu, F.D.**; Gübitz, G.M.; Cavaco-Paulo, A. *Laccase kinetics of degradation and coupling reactions*. **J. Mol. Catal. B-Enzym.** 2005, 33, 23-28, doi:10.1016/j.molcatb.2005.01.005.
- C39. **Munteanu, F.D.**; Ruiz-Dueñas, F.J.; Martínez, A.T.; Cavaco-Paulo, A. *Kinetics of direct and substrate-mediated electron transfer of versatile peroxidase-modified graphite electrodes*. **J. Electroanal. Chem.** 2005, 580, 35-40, doi:10.1016/j.jelechem.2005.02.022.
- C40. **Munteanu, F.D.**; Mano, N.; Kuhn, A.; Gorton, L. *NADH electrooxidation using carbon paste electrodes modified with nitro-fluorenone derivatives immobilized on zirconium phosphate*. **J. Electroanal. Chem.** 2004, 564, 167-178, doi:10.1016/j.jelechem.2003.10.034.
- C41. **Munteanu, F.D.**; Okamoto, Y.; Gorton, L. *Electrochemical and catalytic investigation of carbon paste modified with Toluidine Blue O covalently immobilised on silica gel*. **Anal. Chim. Acta** 2003, 476, 43-54, doi:10.1016/s0003-2670(02)01359-4.
- C42. **Munteanu, F.D.**; Dicu, D.; Popescu, I.C.; Gorton, L. *NADH oxidation using carbonaceous electrodes modified with dibenzo-dithia-diazapentacene*. **Electroanalysis** 2003, 15, 383-391, doi:10.1002/elan.200390044.
- C43. Dicu, D.; **Munteanu, F.D.**; Popescu, I.C.; Gorton, L. *Indophenol and o-quinone derivatives immobilized on zirconium phosphate for NADH electro-oxidation*. **Anal. Lett.** 2003, 36, 1755-1779, doi:10.1081/al-120023613.
- C44. **Munteanu, F.D.**; Mosbach, M.; Schulte, A.; Schuhmann, W.; Gorton, L. *Fast-scan cyclic voltammetry and scanning electrochemical microscopy studies of the pH-dependent dissolution of 2-electron mediators immobilized on zirconium phosphate containing carbon*

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C46. **Munteanu, F.D.**; Kubota, L.T.; Gorton, L. *Effect of pH on the catalytic electro oxidation of NADH using different two-electron mediators immobilised on zirconium phosphate. J. Electroanal. Chem.* 2001, 509, 2-10, doi:10.1016/s0022-0728(01)00376-x.

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C48. Gorton, L.; Lindgren, A.; Larsson, T.; **Munteanu, F.D.**; Ruzgas, T.; Gazaryan, I. *Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors. Anal. Chim. Acta* 1999, 400, 91-108, doi:10.1016/s0003-2670(99)00610-8.

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## **E. Brevete obținute în întreaga activitate**

E1. Sîrghie Cecilia, Radu Dana Gina, **Munteanu Florentina-Daniela**, Pag Andreea, Dochia Mihaela, Tomescu Daniel, *Process for Melting Bast Fiber Plants, Such As: Flax, Hemp, Jute Etc*, 2014

## **F. Contracte de cercetare în întreaga activitate**

F1. 2021-2024 Research Centre in Sustainable Bio-Eco-Economy; **Member in management team**; <https://www.bioeco.es.uav.ro/>

- F2.** 2022-2024 Cell-penetrating peptides-containing systems as a potential platform for the use in breast and prostate cancer treatment; Senior Researcher, <https://cpps-cancer.uav.ro/>
- F3.** 2018-2020 PN-III-P1-1.2-PCCDI2017-0569 - **Principal Investigator** "Closing bioeconomy value chains through innovative market demanded bioproducts -PRO-SPER", -10-PCCDI/2018
- F4.** 2017-2018 PN3, Romania-France Bilateral Cooperation Projects, BM46, **Principal investigator** "Valorisation of wine by-products - applications for wastewater treatment"
- F5.** 2014-2017 PN2, Collaborative Applied Research Projects, **Principal investigator** PN-II-PT-PCCA-2013-4-0191 Interactomics of galactosaminoglycans in extracellular matrix by advanced mass spectrometry
- F6.** 2010-2012 PN2, Capacities, Module III, **Principal investigator** - Folate-based nanobiodevices for integrated diagnosis/therapy targeting chronic inflammatory diseases
- F7.** 2009-2013 FP7- NMP-2008-LARGE-2, **Principal investigator** Project No 228827- Folate-based nanobiodevices for integrated diagnosis/therapy targeting chronic inflammatory diseases
- F8.** 2006-2009 NATO Nr. EAP.RIG.982234 - **Principal investigator** „Biosensors for Environmental Pollutants Monitoring”
- F9.** 2006-2008 Research of excellence entitled **Principal investigator** "Computerized filtration systems and separation systems for textile processes".
- F10.** 2005-2007 Research Contract of Excellence No. 3179/12.10.2005 **Principal investigator** "Electrochemical Characterization and Kinetic Study of Biodegradation of Pollutants Environment"
- F11.** 2005-2006 SFRH/BPD/16674/2004, **Principal investigator Portugal** „Electrochemical Characterization of Redox Biodegradation of Redox Dyes” within Minho University, Portugal

23.09.2024

**Prof. univ. dr. habil. Munteanu Florentina-Daniela**

## LIST OF SCIENTIFIC PAPERS

**Prof. univ. dr. hab. Munteanu Florentina-Daniela - PhD since 2002,  
University Professor since 2008, habilitated since 2018**

### A. Doctoral/habilitation thesis

1. **Doctoral Thesis: Munteanu Florentina-Daniela, 2002, *Studies of Electrocatalytic Reactions of NADH at Mediator Modified Electrodes and of H<sub>2</sub>O<sub>2</sub> at Peroxidase Modified Electrodes*, Scientific supervisor: Prof. Univ. Dr. Lo Gorton, Lund University, Suedia**
2. **Habilitation thesis: Munteanu Florentina-Daniela, 2018, *Tehnici avansate de monitorizare și prevenire a poluării mediului***

### B. Books and chapters published

- B1. Florentina-Daniela Munteanu, *Studies of Electrocatalytic Reactions of NADH at Mediator Modified Electrodes and of H<sub>2</sub>O<sub>2</sub> at Peroxidase Modified Electrodes*, 2002 (ISBN 91-7422-005-5), KFS Lund, Universitatea Lund Suedia**
- B2. Munteanu Florentina-Daniela, *Fundamental and Applied Research on Recombinant and Wilde type Horseradish Peroxidase Based Biosensors*, Tipografia Universității Lund, Suedia 1997**
- B3. Annika Lindgren, Tautgirdas Ruzgas, Leonard Stoica, Florentina-Daniela Munteanu, and Lo Gorton *Cellobiose Dehydrogenase and Peroxidase Biosensors for Determination of Phenolic Compounds în Chemical and Biological Sensors for Environmental Monitoring*, A. Mulchandani and O. A. Sadik (Eds), ACS Symposium Series, vol. 762, 113.**
- B4. Munteanu Florentina-Daniela, Nicolae Dincă, Artur Cavaco-Paulo, *MALDI-ToF Mass Spectrometry in Textile Industry*, Springer Verlag, ISBN 978-1-4020-8811-7**
- B5. Ioan Calinovici, Florentina-Daniela Munteanu, Monica Lungu, Virgil Ciutină, *Strategia de Combatare a plantelor invazive*. <http://sesil.eu/ro>**

### C. ISI/IDB indexed papers published

- C1. Bud F., Perța-Crișan S., Ursachi C.S., Gavrilas S., **Munteanu F.D.**, *Wastewater Global Pollution Index as an Indicator in Assessing the Quality of the Effluent from the Arad*

- Municipal Treatment Plant*, **Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.** 2024, 25 (3)
- C2. Chereji B.-D., **Florentina-Daniela Munteanu**, *Wool-Based Filters for the Retaining of Heavy Metals from Industrial and Contaminated Wastewater*, **Scientific Papers. Series B. Horticulture**, 2024, LXVIII, 1, 699-704
- C3 Hărtău R.C., Perța-Crișan S., Ursachi C.S., Gavrilas S., **Munteanu F.D.**, *Source Risk Assessment for Heavy Metals in Soil on the Site of a Hydrocarbon Power Plant*, **Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.** 2024, 25 (2), 203-214, doi.org/10.29081/ChIBA.2024.595
- C4. Ursachi C.-Ș., Perța-Crișan, S., Tolan I., Chambre D. R., Chereji B.-D., Condrat D., **Florentina-Daniela Munteanu**, *Development and Characterization of Ethylcellulose Oleogels Based on Pumpkin Seed Oil and Rapeseed Oil*, **Gels** 2024, 10(6), 384, doi.org/10.3390/gels10060384
- C5. Godja, N.C.; **Munteanu, F.D.** *Hybrid Nanomaterials: A Brief Overview of Versatile Solutions for Sensor Technology in Healthcare and Environmental Applications*. **Biosensors-Basel** 2024, 14, 23, doi:10.3390/bios14020067.
- C6. Perta-Crisan, S.; Ursachi, C.S.; Chereji, B.D.; Tolan, I.; **Munteanu, F.D.** *Food-Grade Oleogels: Trends in Analysis, Characterization, and Applicability*. **Gels** 2023, 9, 42, doi:10.3390/gels9050386.
- C7. Perta-Crisan, S.; Ursachi, C.S.; Chereji, B.D.; **Munteanu, F.D.** *Oleogels-Innovative Technological Solution for the Nutritional Improvement of Meat Products*. **Foods** 2023, 12, 21, doi:10.3390/foods12010131.
- C8. Castro, T.G.; Ferreira, T.; Matamá, T.; **Munteanu, F.D.**; Cavaco-Paulo, A. *Acetylation and phosphorylation processes modulate Tau's binding to microtubules: A molecular dynamics study*. **Biochim. Biophys. Acta-Gen. Subj.** 2023, 1867, 14, doi:10.1016/j.bbagen.2022.130276.
- C9. Blidar, E.V.; Gavrilas, S.; Ursachi, C.S.; Perta-Crisan, S.; **Munteanu, F.D.** *Perceptions on Drinking Water and Wastewater in a Local Area in Western Romania*. **Appl. Sci.-Basel** 2023, 13, 13, doi:10.3390/app132011401.
- C10. Gavrilas, S.; Ursachi, C.S.; Perta-Crisan, S.; **Munteanu, F.D.** *Recent Trends in Biosensors for Environmental Quality Monitoring*. **Sensors** 2022, 22, 19, doi:10.3390/s22041513.
- C11. Gavrilas, S.; Calinovici, I.; Chis, S.; Ursachi, C.S.; Rat, M.; **Munteanu, F.D.** *White Grape Pomace Valorization for Remediating Purposes*. **Appl. Sci.-Basel** 2022, 12, 15, doi:10.3390/app12041997.



- C12. Chereji, B.D.; **Munteanu, F.D.** *The Impact of Sheep Waste Wool on The Environment.* **Sci. Pap.-Ser. E-Land Reclam. Earth Obs. Surv. Environ. Eng.** 2022, 11, 458-463.
- C13. Burca, V.; Csorba, L.M.; **Munteanu, F.D.**; Rusu, S. *The Romanian consumers' perception regarding the safety of dietary supplements.* **J. Public Health-Heidelberg** 2022, 30, 1583-1602, doi:10.1007/s10389-020-01425-6.
- C14. Ursachi, C.S.; **Munteanu, F.D.**; Cioca, G. *The Safety of Slaughterhouse Workers during the Pandemic Crisis.* **Int. J. Environ. Res. Public Health** 2021, 18, 10, doi:10.3390/ijerph18052633.
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- C16. Perta-Crisan, S.; Ursachi, C.S.; Gavrilas, S.; Oancea, F.; **Munteanu, F.D.** *Closing the Loop with Keratin-Rich Fibrous Materials.* **Polymers** 2021, 13, 26, doi:10.3390/polym13111896.
- C17. Constantin, O.E.; Milea, A.S.; Bolea, C.; Mihalcea, L.; Enachi, E.; Copolovici, D.M.; Copolovici, L.; **Munteanu, F.**; Bahrim, G.E.; Răpeanu, G. *Onion Allium cepa L. peel extracts characterization by conventional and modern methods.* **Int. J. Food Eng.** 2021, 17, 485-493, doi:10.1515/ijfe-2020-0310.
- C18. Ursachi, C.S.; Perta-Crisan, S.; **Munteanu, F.D.** *Strategies to Improve Meat Products' Quality.* **Foods** 2020, 9, 22, doi:10.3390/foods9121883.
- C19. Ion, S.G.; Brudiu, T.; Hanganu, A.; **Munteanu, F.**; Enache, M.; Maria, G.M.; Tudorache, M.; Parvulescu, V. *Biocatalytic Strategy for Grafting Natural Lignin with Aniline.* **Molecules** 2020, 25, 14, doi:10.3390/molecules25214921.
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- C22. Nastuneac, V.; Gavrilas, S.; **Munteanu, F.D.** *Assesment of the Water Quality in Siret Hydrographic Basin.* **Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.** 2019, 20, 471-480.
- C23. Cioca, G.; **Munteanu, F.D.** *Estimation of the Amount of Disposed Antibiotics.* **Sustainability** 2019, 11, 9, doi:10.3390/sul11061800.

- C24. Castro, T.G.; **Munteanu, F.D.**; Cavaco-Paulo, A. *Electrostatics of Tau Protein by Molecular Dynamics*. **Biomolecules** 2019, 9, 16, doi:10.3390/biom9030116.
- C25. Andrei, V.; Copolovici, D.; **Munteanu, F.D.**; Wetie, A.G.N.; Mihai, I.; Darie, C.C.; Vasilescu, A. *Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry*. In *Advancements of Mass Spectrometry in Biomedical Research*, 2nd Edition, Woods, A.G., Darie, C.C., Eds.; **Advances in Experimental Medicine and Biology**; Springer International Publishing Ag: Cham, 2019; Volume 1140, pp. 665-684.
- C26. **Munteanu, F.D.**; Titoiu, A.M.; Marty, J.L.; Vasilescu, A. *Detection of Antibiotics and Evaluation of Antibacterial Activity with Screen-Printed Electrodes*. **Sensors** 2018, 18, 26, doi:10.3390/s18030901.
- C27. Bucur, B.; **Munteanu, F.D.**; Marty, J.L.; Vasilescu, A. *Advances in Enzyme-Based Biosensors for Pesticide Detection*. **Biosensors-Basel** 2018, 8, 28, doi:10.3390/bios8020027.
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- C30. Fernandes, M.M.; Gomes, A.C.; Vasconcelos, A.; **Munteanu, F.D.**; Tzanov, T.; Gonçalves, M.S.T.; End, N.; Schoening, K.U.; Guebitz, G.M.; Cavaco-Paulo, A. *Protein disulphide isomerase-assisted functionalization of keratin-based matrices*. **Appl. Microbiol. Biotechnol.** 2011, 90, 1311-1321, doi:10.1007/s00253-011-3194-6.
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- C34. **Munteanu, F.D.**; Dinca, N.; Cavaco-Paulo, A. *MALDI-ToF Mass Spectrometry In Textile Industry*. in **Proceedings of the NATO Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety**, Arad, ROMANIA, Sep 24-27, 2007; pp. 193-+.
- C35. **Munteanu, F.D.**; Basto, C.; Gübitz, G.M.; Cavaco-Paulo, A. *Staining of wool using the reaction products of ABTS oxidation by Laccase:: Synergetic effects of ultrasound and*

- cyclic voltammetry. Ultrason. Sonochem.* 2007, 14, 363-367, doi:10.1016/j.ultsonch.2006.07.008.
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- C37. Fernandes, M.; Basto, C.; Zille, A.; **Munteanu, F.**; Guebitz, G.M.; Cavaco-Paulo, A. *POLY 441-Sono-enzymatic polymerization of catechol. Abstr. Pap. Am. Chem. Soc.* 2006, 232, 1.
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- C41. **Munteanu, F.D.**; Okamoto, Y.; Gorton, L. *Electrochemical and catalytic investigation of carbon paste modified with Toluidine Blue O covalently immobilised on silica gel. Anal. Chim. Acta* 2003, 476, 43-54, doi:10.1016/s0003-2670(02)01359-4.
- C42. **Munteanu, F.D.**; Dicu, D.; Popescu, I.C.; Gorton, L. *NADH oxidation using carbonaceous electrodes modified with dibenzo-dithia-diazapentacene. Electroanalysis* 2003, 15, 383-391, doi:10.1002/elan.200390044.
- C43. Dicu, D.; **Munteanu, F.D.**; Popescu, I.C.; Gorton, L. *Indophenol and o-quinone derivatives immobilized on zirconium phosphate for NADH electro-oxidation. Anal. Lett.* 2003, 36, 1755-1779, doi:10.1081/al-120023613.
- C44. **Munteanu, F.D.**; Mosbach, M.; Schulte, A.; Schuhmann, W.; Gorton, L. *Fast-scan cyclic voltammetry and scanning electrochemical microscopy studies of the pH-dependent dissolution of 2-electron mediators immobilized on zirconium phosphate containing carbon pastes. Electroanalysis* 2002, 14, 1479-1487, doi:10.1002/1521-4109(200211)14:21<1479::Aid-elan1479>3.0.Co;2-t.
- C45. **Munteanu, F.D.**; Mano, N.; Kuhn, A.; Gorton, L. *Mediator-modified electrodes for catalytic NADH oxidation: high rate constants at interesting overpotentials. Bioelectrochemistry* 2002, 56, 67-72, doi:10.1016/s1567-5394(02)00009-9.

- C46. **Munteanu, F.D.**; Kubota, L.T.; Gorton, L. *Effect of pH on the catalytic electro oxidation of NADH using different two-electron mediators immobilised on zirconium phosphate*. **J. Electroanal. Chem.** 2001, 509, 2-10, doi:10.1016/s0022-0728(01)00376-x.
- C47. **Munteanu, F.D.**; Gorton, L.; Lindgren, A.; Ruzgas, T.; Emnéus, J.; Csöregi, E.; Gazaryan, I.G.; Ouporov, I.V.; Mareeva, E.A.; Lagrimini, L.M. *Direct and mediated electron transfer catalyzed by anionic tobacco peroxidase -: Effect of calcium ions*. **Appl. Biochem. Biotechnol.** 2000, 88, 321-333, doi:10.1385/abab:88:1-3:321.
- C48. Gorton, L.; Lindgren, A.; Larsson, T.; **Munteanu, F.D.**; Ruzgas, T.; Gazaryan, I. *Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors*. **Anal. Chim. Acta** 1999, 400, 91-108, doi:10.1016/s0003-2670(99)00610-8.
- C49. **Munteanu, F.D.**; Lindgren, A.; Emnéus, J.; Gorton, L.; Ruzgas, T.; Csöregi, E.; Ciucu, A.; van Huystee, R.B.; Gazaryan, I.G.; Lagrimini, L.M. *Bioelectrochemical monitoring of phenols and aromatic amines in flow injection using novel plant peroxidases*. **Anal. Chem.** 1998, 70, 2596-2600, doi:10.1021/ac980022s.
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#### **E. Patents obtained in the whole activity**

E1. Sirghie Cecilia, Radu Dana Gina, **Munteanu Florentina-Daniela**, Pag Andreea, Dochia Mihaela, Tomescu Daniel, *Process for Melting Bast Fiber Plants, Such As: Flax, Hemp, Jute Etc*, 2014

#### **F. Research contracts across the whole activity**

- F1. 2021-2024 Research Centre in Sustainable Bio-Eco-Economy; **Member in management team**; <https://www.bioeco.es.uav.ro/>
- F2. 2022-2024 Cell-penetrating peptides-containing systems as a potential platform for the use in breast and prostate cancer treatment; Senior Researcher, <https://cpps-cancer.uav.ro/>
- F3. 2018-2020 PN-III-P1-1.2-PCCDI2017-0569 - **Principal Investigator** "Closing bioeconomy value chains through innovative market demanded bioproducts -PRO-SPER", -10-PCCDI/2018

- F4.** 2017-2018          PN3, Romania-France Bilateral Cooperation Projects, BM46, **Principal investigator** "Valorisation of wine by-products - applications for wastewater treatment"
- F5.** 2014-2017          PN2, Collaborative Applied Research Projects, **Principal investigator**  
PN-II-PT-PCCA-2013-4-0191 Interactomics of galactosaminoglycans in extracellular matrix by advanced mass spectrometry
- F6.** 2010-2012          PN2, Capacities, Module III, **Principal investigator** - Folate-based nanobiodevices for integrated diagnosis/therapy targeting chronic inflammatory diseases
- F7.** 2009-2013          FP7- NMP-2008-LARGE-2, **Principal investigator** Proiect No 228827- Folate-based nanobiodevices for integrated diagnosis/therapy targeting chronic inflammatory diseases
- F8.** 2006-2009          NATO Nr. EAP.RIG.982234 - **Principal investigator** „Biosensors for Environmental Pollutants Monitoring”
- F9.** 2006-2008          Research of excellence entitled **Principal investigator** "Computerized filtration systems and separation systems for textile processes".
- F10.** 2005-2007          Research Contract of Excellence No. 3179/12.10.2005 **Principal investigator** "Electrochemical Characterization and Kinetic Study of Biodegradation of Pollutants Environment"
- F11.** 2005-2006          SFRH/BPD/16674/2004, **Principal investigator Portugal**  
„Electrochemical Characterization of Redox Biodegradation of Redox Dyes” within Minho University, Portugal

23.09.2024

**Prof. univ. dr. hab. Munteanu Florentina-Daniela**

**UNIVERSITATEA „AUREL VLAICU” DIN ARAD**

**PLAN MANAGERIAL**

**pentru dezvoltarea IOSUD din cadrul Universității „Aurel Vlaicu” din Arad**

**Propus de: Prof. univ. dr. habil Florentina-Daniela Munteanu**

**Candidat la funcția de director al Consiliului Studiilor Universitare de Doctorat din cadrul  
Universității „Aurel Vlaicu” din Arad**

**2024-2029**

*Munteanu Florentina-Daniela*

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## Preambul

În anul 2008 Universitatea „Aurel Vlaicu” din Arad a fost acreditată ca Instituție Organizatoare de Studii Universitare de Doctorat (IOSUD), prin Ordin al Ministrului Educației, Cercetării și Tineretului [Nr. 4969/31.07.2008](#), pentru domeniul de studii universitare de doctorat: **Filologie**, rectorul fiind reprezentantul legal al IOSUD-UAV.

În prezent, în cadrul IOSUD-UAV funcționează 5 domenii de studii universitare de doctorat: **Filologie** [OMECT 4969/31.07.2008](#), **Teologie** (Teologie ortodoxă, Teologie evanghelică) [OMECT 4966/31.08.2010](#), **Ingineria Mediului** [OMEN 4006/14.05.2019](#), **Asistență Socială** [OM 5380-24.08.2023](#) și **Management** [OM 6523/20.09.2023](#).

Conform Regulamentului instituțional privind organizarea și desfășurarea studiilor universitare de doctorat în cadrul IOSUD-UAV, activitatea de doctorat din cadrul școlilor doctorale este coordonată de către Consiliul pentru Studiile Universitare de Doctorat - CSUD. Studiile universitare de doctorat se desfășoară la forma de învățământ cu frecvență și cu frecvență redusă, în conformitate cu prevederile Legii învățământului superior nr. 199/2023, a OM 3020/2024. Atribuțiile directorului CSUD așa cum sunt prevăzute de OM 3020/2024 și de reglementările interne sunt de coordonare activităților consiliului și de concepere, împreună cu membrii CSUD, a strategiei IOSUD în vederea susținerii realizării obiectivelor prevăzute în Planul Strategic de Dezvoltare Instituțională a Universității „Aurel Vlaicu,, din Arad.

Unul din obiectivele prioritare prevăzut în **Planul strategic de dezvoltare instituțională**, al UAV este cel de înființare de noi domenii de doctorat. În acest sens, pentru a stimula cadrele didactice universitare să dobândească atestatul de abilitare și dreptul de îndrumare de doctorate, taxele de susținere a examenului de abilitare sunt susținute de către UAV, și totodată, accesarea la postul de profesor universitar este condiționată de obținerea prealabilă a atestatului de abilitare.

Universitatea „Aurel Vlaicu” din Arad, fiind o instituție publică de învățământ superior acreditată își asumă o misiune de învățământ și cercetare științifică și, în egală măsură, își susține și promovează strategiile în cadrul comunității locale, regionale, naționale și internaționale.

Misiunea UAV poate fi evidențiată în câteva cuvinte: universitate pentru **studenți**, universitate pentru **știință**, universitate pentru **societate**.

În acest sens, cel de-al treilea ciclu de studii universitare (doctorat), poate contribui substanțial la creșterea vizibilității naționale și internaționale a universității.

## Analiza SWOT

Prin următoarea analiză sintetică (SWOT) se dorește să se ofere o imagine de ansamblu a activităților derulate în cadrul Școlii Doctorale Interdisciplinare din cadrul IOSUD-UAV, în perioada 2020-2024, subliniind punctele tari și slabe, oportunitățile și amenințările identificate.

<b>Puncte tari:</b>	<b>Puncte slabe</b>
<ul style="list-style-type: none"><li>- existența resursei umane și financiare necesare pentru derularea studiilor doctorale;</li><li>- diversitatea temelor din domeniile de doctorat propuse de conducătorii de doctorat din domeniile existente în Școala Doctorală Interdisciplinară;</li><li>- verificarea lucrărilor cu ajutorul unui soft de verificare a gradului de similitudine;</li><li>- o bună colaborare cu autoritățile locale și regionale;</li><li>- accesul gratuit la literatura științifică din baze de date internaționale, prin ANELIS+;</li><li>- dezvoltarea infrastructurii de cercetare prin proiecte câștigate în competiții naționale și internaționale;</li><li>- o infrastructură de cercetare și de studiu conformă cu strategia de dezvoltare a IOSUD.</li></ul>	<ul style="list-style-type: none"><li>- numărul mic de locuri bugetate alocate domeniilor de doctorat existente în cadrul IOSUD-UAV;</li><li>- numărul mic de proiecte de cercetare derulate în unele domenii de doctorat care să asigure implicarea doctoranzilor în activități de cercetare științifică;</li><li>- lipsa tezelor de doctorat realizate în cotutelă și un număr mic de referenți din străinătate prezenți în comisiile de susținere publică a tezelor din toate domeniile;</li><li>- număr mic de participări ale doctoranzilor în mobilități ERASMUS.</li></ul>
<b>Oportunități:</b>	<b>Amenințări:</b>
<ul style="list-style-type: none"><li>- poziționarea orașului Arad în apropierea Ungariei și buna conexiune a acestuia la infrastructura de transport europeană ar putea dezvolta atât proiecte transfrontaliere, cât și colaborarea cu universitățile din apropierea graniței (Ungaria, Serbia);</li><li>- relația bună cu autoritățile locale și județene, cu mediul socio-economic;</li><li>- interdisciplinaritatea în tematicile de cercetare din domeniile de doctorat din IOSUD-UAV;</li><li>- un corp profesoral tânăr, cu posibilități de abilitare.</li></ul>	<ul style="list-style-type: none"><li>- scăderea demografică generală de la nivelul țării, cumulată cu exodul absolvenților/tinerilor din Arad spre alte centre universitare din România și din străinătate;</li><li>- numărul mic de locuri bugetate în comparație cu numărul conducătorilor de doctorat;</li><li>- concurența regională puternică (chiar în Arad, dar și în județele învecinate, unde există universități mai mari și mai bine cotate);</li><li>- persistența în spațiul public a unor suspiciuni și acuzații privitoare la onestitatea/probitatea morală a unor membri din vârful mediului academic arădean.</li></ul>



## Obiective strategice și activități specifice

Prezentul plan managerial se concentrează îndeosebit asupra creșterii excelenței și recunoașterii calității educației și cercetării din cadrul Școlii Doctorale Interdisciplinare a Universității „Aurel Vlaicu” din Arad.

În acest sens misiunea Consiliului Studiilor Universitare de Doctorat și obiectivele definite vor fi permanent aliniate la obiectivele generale prevăzute în Planul de Dezvoltare Instituțională al UAV.

Prin urmare, se are în vedere extinderea domeniilor de doctorat, îmbunătățirea rezultatelor cercetării și a reputației globale a IOSUD-UAV prin identificarea permanentă a resurselor materiale și financiare necesare creșterii continue a numărului de studenți doctoranzi și dezvoltarea resurselor umane și materiale pentru asigurarea calității studiilor doctorale din universitatea noastră.

Consider că prezentul plan managerial, prin obiectivele sale, oferă o oportunitate de a crește vizibilitatea universității la nivel național și internațional prin diseminarea rezultatelor cercetării științifice ale studenților din ciclul al treilea de studii universitare sub coordonarea conducătorilor de doctorat afiliați IOSUD-UAV și respectiv îndrumarea membrilor comisiilor de îndrumare și integritate academică.

### *Excelență și calitate*

- Încurajarea cadrelor didactice titulare ale UAV să se abiliteze și să se afilieze IOSUD-UAV
- Acreditarea de domenii noi de doctorat;
- Identificarea de noi surse de sprijin financiar și asistarea doctoranzilor în elaborarea de proiecte de cercetare pentru participare la competiții naționale și internaționale;
- Colaborarea cu cadrele didactice pentru dezvoltarea și perfecționarea programelor de pregătire în conformitate cu progresele academice și cu tendințele pieței muncii și pentru a oferi tinerilor doctoranzi competențe antreprenoriale;
- Asigurarea calității privind programul de pregătire bazat pe studii universitare avansate;
- Stabilirea unui mecanism continuu de evaluare a calității domeniilor de doctorat prin evaluări interne semestriale/anuale;

- Stabilirea unor standarde interne în conformitate cu criteriile ARACIS, pentru a asigura acreditarea de noi domenii de doctorat și menținerea acreditării domeniilor de doctorat existente;
- Asigurarea resurselor necesare derulării în bune condiții a programului de cercetare științifică sau aplicativă;
- Asigurarea de asistență de înaltă calitate pentru serviciile academice și administrative;
- Integrarea doctoranzilor în mediul academic, astfel încât nevoile academice ale acestora să poate fi identificate ușor și rezolvate la timp;
- Dezvoltarea unei strategii privind planificarea și gestionarea bugetului Școlii Doctorale Interdisciplinare pentru alocarea eficientă a resurselor pentru burse de cercetare oferite doctoranzilor pe baza meritelor și nevoilor;
- Identificarea unor finanțări externe pentru susținerea activității de cercetare a doctoranzilor.

#### *Coordonarea și îndrumarea doctoranzilor*

- Revizuirea și actualizarea periodică a criteriilor de admitere pentru a atrage candidați de înaltă calitate și a menține competitivitatea domeniilor de doctorat;
- Dezvoltarea de inițiative pentru a spori diversitatea candidaților la admitere și pentru a crea un mediu incluziv pentru studenții din diverse medii;
- Asigurarea unui feedback constructiv și a unei îndrumări corespunzătoare privind metodologia de cercetare în vederea respectării termenelor și obiectivelor stabilite;
- Dezvoltarea unui program flexibil și inovator de sprijin pentru îndrumarea doctoranzilor;
- Promovarea sistemelor de evaluare și feedback care susțin calitatea îndrumării doctoranzilor;
- Formarea cadrelor didactice tinere pentru a crește numărul cadrelor didactice ce vor fi cooptate în comisiile de îndrumare ale doctoranzilor;
- Implementarea programelor de mentorat și sprijin pentru cercetare și îmbunătățirea predării;
- Facilitarea accesului studenților la consiliere, furnizarea de formare pentru conducătorii de doctorat și asigurarea alinierii mentoratului cu obiectivele de cercetare ale studenților;

- Promovarea colaborării între departamente, centre și institute de cercetare pentru a încuraja inovarea și diversitatea temelor de cercetare.

#### *Creșterea performanțelor cercetării din timpul stagiului doctoral*

- Sprijinirea studenților doctoranzi și a cadrelor didactice în identificarea granturilor de cercetare, a burselor și a surselor de finanțare a cercetării;
- Încurajarea studenților și cadrelor didactice în diseminarea rezultatelor cercetării științifice în reviste cu factor de impact ridicat și participarea la conferințe naționale și internaționale;
- Implicarea doctoranzilor în activități didactice și/sau de cercetare desfășurate în universitate și integrarea acestora în centre de cercetare, colaborări sau grupuri;
- Valorificarea rezultatelor din timpul stagiului de cercetare doctorală și identificarea unor parteneriate cu mediu socio-economic în vederea transferului rezultatelor la operatorul economic;
- Integrarea cercetării doctorale în strategia de cercetare a universității și sublinierea importanței calității și respectării eticii în timpul stagiului doctoral.

#### *Etică și integritate academică*

- Susținerea și asigurarea celor mai înalte standarde de etică și integritate a cercetării din timpul stagiului doctoral, inclusiv conformitatea cu legislația și reglementările naționale și internaționale pentru a sprijini integritatea cercetării;
- Stabilirea unor proceduri clare de soluționare a sesizărilor pentru ca studenții să poată raporta probleme precum abateri academice sau tratament incorect.

#### *Angajabilitatea și dezvoltarea competențelor doctoranzilor*

- Monitorizarea continuă a provocărilor datorate schimbărilor legislative din țară și a tendințelor pregătirii doctorale la nivel internațional;
- Pregătirea doctoranzilor pentru o serie de oportunități de angajare în cadrul și în afara mediului academic prin dezvoltarea de abilități de cercetare științifică, dezvoltare personală și profesională;

- Susținerea absolvenților care au obținut rezultate performante în timpul stagiului doctoral prin implicarea acestora în stagii post-doctorale;
- Identificarea și înregistrarea activităților și abilităților evidențiate de cercetătorii doctorali de succes pentru a le spori oportunitățile de dezvoltare a carierei.

#### *Dezvoltarea parteneriatelor naționale și internaționale*

- Încurajarea participării doctoranzilor la stagii de cercetare în străinătate;
- Diseminarea rezultatelor cercetării din timpul stagiului doctoral la conferințe internaționale;
- Creșterea numărului de teze de doctorat realizate în co-tutelă în special cu specialiști din străinătate;
- Actualizarea permanentă a informațiilor pe pagina web instituțională a Școlii Doctorale Interdisciplinare atât în limba română cât și în limbi de circulație internațională.

#### **În loc de concluzii**

Prezentul program managerial va sta la baza strategiei de dezvoltare a Școlii Doctorale Interdisciplinare, ce urmează a fi dezvoltată împreună cu membrii CSUD și conducătorii de doctorat din cadrul IOSUD-UAV cu respectarea normativelor legislative naționale și a reglementărilor interne în vigoare.

**„AUREL VLAICU” UNIVERSITY OF ARAD**

**MANAGEMENT PLAN**

**For the development of IOSUD within "Aurel Vlaicu" University of Arad**

**Proposed by: Prof. Dr. habil Florentina-Daniela Munteanu**

**Candidate for the position of Director of the Council for Doctoral Studies (CSUD) at  
"Aurel Vlaicu" University of Arad**

**2024-2029**

*Munteanu Florentina-Daniela*

## Preamble

In 2008, "Aurel Vlaicu" University of Arad was accredited as an Organizing Institution for Doctoral Studies (IOSUD) by the Order of the Minister of Education, Research, and Youth No. [4969/31.07.2008](#), for the field of doctoral studies: Philology, with the rector serving as the legal representative of IOSUD-UAV.

Currently, IOSUD-UAV encompasses five fields of doctoral studies: *Philology* ([OMECT 4969/31.07.2008](#)), *Theology (Orthodox Theology, Evangelical Theology)* ([OMECT 4966/31.08.2010](#)), *Environmental Engineering* ([OMEN 4006/14.05.2019](#)), *Social Work* ([OM 5380-24.08.2023](#)), and *Management* ([OM 6523/20.09.2023](#)).

According to the institutional regulations governing the organization of doctoral studies within IOSUD-UAV, the doctoral activity within the doctoral school is coordinated by the Council for Doctoral Studies (CSUD). Doctoral studies are conducted in both full-time and part-time formats by the Higher Education Law No. 199/2023 provisions and OM 3020/2024. The responsibilities of the CSUD Director, as stipulated by OM 3020/2024 and internal regulations, include coordinating the council's activities and developing, together with CSUD members, the IOSUD strategy to support the achievement of the objectives outlined in the Institutional Development Strategic Plan of "Aurel Vlaicu" University of Arad.

One of the priority objectives in the strategic development plan of UAV is the establishment of new doctoral fields. To encourage university faculty members to obtain habilitation certificates and the right to supervise doctoral students, UAV covers the habilitation exam fees. Furthermore, appointment to the university professor position is conditional upon obtaining the habilitation certificate.

"Aurel Vlaicu" University of Arad is a public, accredited institution of higher education that assumes a mission of teaching and scientific research and equally supports and promotes its strategies within the local, regional, national, and international community.

The mission of UAV can be summarized in a few words: a university for students, a university for science, and a university for society. In this context, the third cycle of university studies (PhD) can substantially contribute to increasing the university's national and international visibility.

## SWOT Analysis

The following synthetic SWOT analysis aims to provide an overview of the activities carried out within the Interdisciplinary Doctoral School of IOSUD-UAV during the 2020-2024 period, highlighting the identified strengths, weaknesses, opportunities, and threats.

<b>Strengths:</b>	<b>Weaknesses:</b>
<ul style="list-style-type: none"><li>- Availability of the necessary human and financial resources for conducting doctoral studies;</li><li>- Diversity of topics in the doctoral fields proposed by doctoral supervisors in the existing fields within the Interdisciplinary Doctoral School;</li><li>- Use of a software tool to check the similarity degree of doctoral works;</li><li>- Good collaboration with local and regional authorities;</li><li>- Free access to scientific literature from international databases through ANELIS+;</li><li>- Development of research infrastructure through projects won in national and international competitions;</li><li>- A research and study infrastructure aligned with the IOSUD development strategy.</li></ul>	<ul style="list-style-type: none"><li>- Low number of state-funded positions allocated to the existing doctoral fields within IOSUD-UAV;</li><li>- Low number of research projects in some doctoral fields, limiting doctoral students' involvement in scientific research activities;</li><li>- Lack of joint doctoral theses and a small number of international reviewers present in public defence committees for all fields;</li><li>- Low participation of doctoral students in ERASMUS mobilities.</li></ul>
<b>Opportunities:</b>	<b>Threats:</b>
<ul style="list-style-type: none"><li>- Arad's proximity to Hungary and good connection to European transport infrastructure could foster both cross-border</li></ul>	<ul style="list-style-type: none"><li>- General demographic decline in the country, combined with the exodus of graduates/young people from Arad to other university centres in Romania and abroad;</li></ul>

<p>projects and collaboration with universities near the border (Hungary, Serbia);</p> <ul style="list-style-type: none"> <li>- Good relationship with local and county authorities and the socio-economic environment;</li> <li>- Interdisciplinarity in research topics across the doctoral fields at IOSUD-UAV;</li> <li>- A young faculty with habilitation potential.</li> </ul>	<ul style="list-style-type: none"> <li>- Low number of state-funded positions compared to the number of doctoral supervisors;</li> <li>- Strong regional competition (even within Arad and in neighbouring counties, where larger and better-ranked universities exist);</li> <li>- Persistence of public suspicions and accusations regarding the honesty/moral probity of some members of the Arad academic community.</li> </ul>
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### Strategic Objectives and Specific Activities

This management plan focuses on enhancing excellence and recognizing the quality of education and research within the Interdisciplinary Doctoral School of "Aurel Vlaicu" University of Arad.

In this regard, the mission of the Council for Doctoral Studies and the defined objectives will be permanently aligned with the general objectives provided in the Institutional Development Plan of UAV.

Therefore, the focus is on expanding the doctoral fields, improving research outcomes, and enhancing the global reputation of IOSUD-UAV by continuously identifying the material and financial resources needed to increase the number of postgraduate students and develop human and material resources to ensure the quality of doctoral studies at our university.

I believe that this management plan, through its objectives, offers an opportunity to increase the university's visibility at the national and international levels by disseminating the scientific research results of third-cycle university students under the guidance of doctoral supervisors affiliated with IOSUD-UAV and the guidance of members of the supervisory and academic integrity committees.



### *Excellence and Quality*

- Encouraging tenured faculty members of UAV to obtain habilitation and affiliate with IOSUD-UAV;
- Accreditation of new doctoral fields;
- Identifying new sources of financial support and assisting doctoral students in developing research projects to participate in national and international competitions;
- Collaborating with faculty to develop and improve training programs in line with academic progress and labour market trends, providing young doctoral students with entrepreneurial skills;
- Ensuring quality in the training program based on advanced university studies;
- Establishing a continuous quality evaluation mechanism for doctoral fields through semi-annual/annual internal evaluations;
- Setting internal standards by ARACIS criteria to ensure the accreditation of new doctoral fields and maintain the accreditation of existing ones;
- Providing the necessary resources for the proper conduct of scientific or applied research programs;
- Providing high-quality assistance for academic and administrative services;
- Integrating doctoral students into the academic environment so that their educational needs can be easily identified and resolved promptly;
- Developing a strategy for planning and managing the budget of the Interdisciplinary Doctoral School to efficiently allocate resources for research scholarships awarded to doctoral students based on merit and need;
- Identifying external funding to support doctoral students' research activities.

### *Coordination and Supervision of Doctoral Students*

- Periodically reviewing and updating admission criteria to attract high-quality candidates and maintain the competitiveness of doctoral fields;
- Developing initiatives to increase the diversity of candidates at admission and create an inclusive environment for students from diverse backgrounds;
- Providing constructive feedback and appropriate guidance on research methodology to meet deadlines and set objectives;

- Developing a flexible and innovative support program for the supervision of doctoral students;
- Promoting evaluation and feedback systems that support the quality of doctoral supervision;
- Training young faculty members to increase the number of faculty members involved in doctoral students' supervisory committees;
- Implementing mentorship and support programs for research and teaching improvement;
- Facilitating students' access to counselling, providing training for doctoral supervisors, and ensuring alignment of mentorship with students' research goals;
- Promoting collaboration between departments, research centres, and institutes to encourage innovation and diversity in research topics.

#### *Enhancing Research Performance during the Doctoral Program*

- Supporting doctoral students and faculty in identifying research grants, scholarships, and sources of research funding;
- Encouraging students and faculty to disseminate scientific research results in high-impact journals and participate in national and international conferences;
- Involving doctoral students in teaching and/or research activities conducted at the university and integrating them into research centres, collaborations, or groups;
- Valuing research results during the doctoral research program and identifying partnerships with the socio-economic environment for transferring results to economic operators;
- Integrating doctoral research into the university's research strategy and emphasizing the importance of quality and adherence to ethics during the doctoral program.

#### *Ethics and Academic Integrity*

- Supporting and ensuring the highest standards of ethics and research integrity during the doctoral program, including compliance with national and international legislation and regulations to support research integrity;
- Establish clear grievance procedures for students to report issues such as academic misconduct or unfair treatment.

### *Employability and Skill Development of Doctoral Students*

- Continuously monitoring challenges due to legislative changes in the country and international trends in doctoral education;
- Preparing doctoral students for a range of employment opportunities within and outside academia by developing scientific research, personal, and professional development skills;
- Supporting graduates who have achieved outstanding results during the doctoral program by involving them in postdoctoral fellowships;
- Identify and record activities and skills demonstrated by successful doctoral researchers to enhance their career development opportunities.

### *Development of National and International Partnerships*

- Encouraging doctoral students to participate in research internships abroad;
- Disseminating research results during the doctoral program at international conferences;
- Increasing the number of co-supervised doctoral theses, especially with specialists from abroad;
- Continuously updating information on the Interdisciplinary Doctoral School's institutional website in Romanian and internationally used languages.

### **Instead of Conclusions**

This management plan will serve as the basis for the development strategy of the Interdisciplinary Doctoral School, which will be developed together with the members of CSUD and the doctoral supervisors of IOSUD-UAV in compliance with national legislative standards and current internal regulations.

**Fișa de îndeplinire a criteriilor minimale cf. OM 6129/2016, Anexa 18 – Ingineria Mediului**  
**Prof. Dr. Habil. Florentina-Daniela Munteanu**

Nr. Crt.	Cvartila	Publicații în Web of Science	Număr de autori	Factor de impact	Autor principal	Factor de impact/număr de autori*
1.	Q4	Bud F., Peța-Crișan S., Ursachi C.S., Gavrilas S., <b>Munteanu F.D.</b> , <i>Wastewater Global Pollution Index as an Indicator in Assessing the Quality of the Effluent from the Arad Municipal Treatment Plant</i> , <b>Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.</b> 2024, 25 (3)	5	0.300	DA	0.300
2.	Q4	Chereji B.-D., <b>Florentina-Daniela Munteanu</b> , <i>Wool-Based Filters for the Retaining of Heavy Metals from Industrial and Contaminated Wastewater</i> , <b>Scientific Papers. Series B. Horticulture</b> , 2024, LXVIII, 1, 699-704	2	0.300	DA	0.300
3.	Q4	Hărtău R.C., Peța-Crișan S., Ursachi C.S., Gavrilas S., <b>Munteanu F.D.</b> , <i>Source Risk Assessment for Heavy Metals in Soil on the Site of a Hydrocarbon Power Plant</i> , <b>Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.</b> 2024, 25 (2), 203-214, doi.org/10.29081/ChIBA.2024.595	5	0.300	DA	0.300
4.	Q1	Ursachi C.-Ș., Peța-Crișan, S., Tolan I., Chambre D. R., Chereji B.-D., Condrat D., <b>Florentina-Daniela Munteanu</b> , <i>Development and Characterization of Ethylcellulose Oleogels Based on Pumpkin Seed Oil and Rapeseed Oil</i> , <b>Gels</b> 2024, 10(6), 384, doi.org/10.3390/gels10060384	7	5.000	DA	5.000
5.	Q1	Godja, N.C.; Munteanu, F.D. <i>Hybrid Nanomaterials: A Brief Overview of Versatile Solutions for Sensor Technology in Healthcare and Environmental Applications</i> . <b>Biosensors-Basel</b> 2024, 14, 23, doi:10.3390/bios14020067.	2	4.900	DA	4.900
6.	Q1	Peța-Crișan, S.; Ursachi, C.S.; Chereji, B.D.; Tolan, I.; <b>Munteanu, F.D.</b> <i>Food-Grade Oleogels: Trends in Analysis, Characterization, and Applicability</i> . <b>Gels</b> 2023, 9, 42, doi:10.3390/gels9050386.	5	5.000	DA	5.000
7.	Q1	Peța-Crișan, S.; Ursachi, C.S.; Chereji, B.D.; <b>Munteanu, F.D.</b> <i>Oleogels-Innovative Technological Solution for the Nutritional Improvement of Meat Products</i> . <b>Foods</b> 2023, 12, 21, doi:10.3390/foods12010131.	4	4.700	DA	4.700
8.	Q2	Castro, T.G.; Ferreira, T.; Matamá, T.; <b>Munteanu, F.D.</b> ; Cavaco-Paulo, A. <i>Acetylation and phosphorylation processes modulate Tau's binding to</i>	5	2.800	NU	0.560

		<i>microtubules: A molecular dynamics study. Biochim. Biophys. Acta-Gen. Subj.</i> 2023, 1867, 14, doi:10.1016/j.bbagen.2022.130276.				
9.	Q1	Blidar, E.V.; Gavrilas, S.; Ursachi, C.S.; Perta-Crisan, S.; <b>Munteanu, F.D.</b> <i>Perceptions on Drinking Water and Wastewater in a Local Area in Western Romania. Appl. Sci.-Basel</i> 2023, 13, 13, doi:10.3390/app132011401.	5	2.500	DA	2.500
10.	Q2	Gavrilas, S.; Ursachi, C.S.; Perta-Crisan, S.; <b>Munteanu, F.D.</b> <i>Recent Trends in Biosensors for Environmental Quality Monitoring. Sensors</i> 2022, 22, 19, doi:10.3390/s22041513.	4	3.400	DA	3.400
11.	Q1	Gavrilas, S.; Calinovici, I.; Chis, S.; Ursachi, C.S.; Rat, M.; <b>Munteanu, F.D.</b> <i>White Grape Pomace Valorization for Remediating Purposes. Appl. Sci.-Basel</i> 2022, 12, 15, doi:10.3390/app12041997.	6	2.500	DA	2.500
12.	Q4	Chereji, B.D.; <b>Munteanu, F.D.</b> <i>The Impact of Sheep Waste Wool on The Environment. Sci. Pap.-Ser. E-Land Reclam. Earth Obs. Surv. Environ. Eng.</i> 2022, 11, 458-463	2	0.300	DA	0.300
13.	Q3	Burca, V.; Csorba, L.M.; <b>Munteanu, F.D.</b> ; Rusu, S. <i>The Romanian consumers' perception regarding the safety of dietary supplements. J. Public Health-Heidelberg</i> 2022, 30, 1583-1602, doi:10.1007/s10389-020-01425-6.	4	1.900	NU	0.475
14.	Q1	Ursachi, C.S.; <b>Munteanu, F.D.</b> ; Cioca, G. <i>The Safety of Slaughterhouse Workers during the Pandemic Crisis. Int. J. Environ. Res. Public Health</i> 2021, 18, 10, doi:10.3390/ijerph18052633.	3	4.614	DA	4.614
15.	Q1	Popitanu, C.; Cioca, G.; Copolovici, L.; Iosif, D.; <b>Munteanu, F.D.</b> ; Copolovici, D. <i>The Seasonality Impact of the BTEX Pollution on the Atmosphere of Arad City, Romania. Int. J. Environ. Res. Public Health</i> 2021, 18, 11, doi:10.3390/ijerph18094858.	6	4.614	NU	0.769
16.	Q1	Perta-Crisan, S.; Ursachi, C.S.; Gavrilas, S.; Oancea, F.; <b>Munteanu, F.D.</b> <i>Closing the Loop with Keratin-Rich Fibrous Materials. Polymers</i> 2021, 13, 26, doi:10.3390/polym13111896.	5	4.700	DA	4.700
17.	Q3	Constantin, O.E.; Milea, A.S.; Bolea, C.; Mihalcea, L.; Enachi, E.; Copolovici, D.M.; Copolovici, L.; <b>Munteanu, F.</b> ; Bahrim, G.E.; Răpeanu, G. <i>Onion Allium cepa L. peel extracts characterization by conventional and modern methods. Int. J. Food Eng.</i> 2021, 17, 485-493, doi:10.1515/ijfe-2020-0310.	10	1.600	NU	0.160
18.	Q1	Ursachi, C.S.; Perta-Crisan, S.; <b>Munteanu, F.D.</b> <i>Strategies to Improve Meat Products' Quality. Foods</i> 2020, 9, 22, doi:10.3390/foods9121883..	3	4.700	DA	4.700

19.	Q2	on, S.G.; Brudiu, T.; Hanganu, A.; <b>Munteanu, F.</b> ; Enache, M.; Maria, G.M.; Tudorache, M.; Parvulescu, V. <i>Biocatalytic Strategy for Grafting Natural Lignin with Aniline</i> . <b>Molecules</b> 2020, 25, 14, doi:10.3390/molecules25214921	8	4.200	NU	0.525
20.	Q4	Gavrilas, S.; Ursachi, C.S.; Dochia, M.; Perta-Crisan, S.; <b>Munteanu, F.D.</b> <i>The Influence of Different Vacuum Impregnation Solutions on the Colour of Fresh-Cut Apple Slices</i> . <b>Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.</b> 2020, 21, 523-531.	5	0.300	DA	0.300
21.	Q1	Nastuneac, V.; Panainte-Lehadus, M.; Mosnegutu, E.F.; Gavrilas, S.; Cioca, G.; <b>Munteanu, F.D.</b> <i>Removal of Cypermethrin from Water by Using Fucus Spiralis Marine Alga</i> . <b>Int. J. Environ. Res. Public Health</b> 2019, 16, 9, doi:10.3390/ijerph16193663.	6	4.614	DA	4.614
22.	Q4	Nastuneac, V.; Gavrilas, S.; <b>Munteanu, F.D.</b> <i>Assesment of the Water Quality in Siret Hydrographic Basin</i> . <b>Sci. Study Res.-Chem. Chem. Eng. Biotechnol. Food Ind.</b> 2019, 20, 471-480.	30	0.300	DA	0.300
23.	Q2	Cioca, G.; <b>Munteanu, F.D.</b> <i>Estimation of the Amount of Disposed Antibiotics. Sustainability</i> 2019, 11, 9, doi:10.3390/su11061800.	2	3.300	DA	3.300
24.	Q1	Castro, T.G.; <b>Munteanu, F.D.</b> ; Cavaco-Paulo, A. <i>Electrostatics of Tau Protein by Molecular Dynamics</i> . <b>Biomolecules</b> 2019, 9, 16, doi:10.3390/biom9030116.	3	4.800	NU	1.600
25.	Q2	Andrei, V.; Copolovici, D.; <b>Munteanu, F.D.</b> ; Wetie, A.G.N.; Mihai, I.; Darie, C.C.; Vasilescu, A. <i>Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry</i> . In <i>Advancements of Mass Spectrometry in Biomedical Research</i> , 2nd Edition, Woods, A.G., Darie, C.C., Eds.; <b>Advances in Experimental Medicine and Biology</b> ; Springer International Publishing Ag: Cham, 2019; Volume 1140 pp. 665-684.	7	3.650	NU	0.521
26.	Q2	<b>Munteanu, F.D.</b> ; Titoiu, A.M.; Marty, J.L.; Vasilescu, A. <i>Detection of Antibiotics and Evaluation of Antibacterial Activity with Screen-Printed Electrodes</i> . <b>Sensors</b> 2018, 18, 26, doi:10.3390/s18030901.	4	3.400	DA	3.400
27.	Q1	Bucur, B.; <b>Munteanu, F.D.</b> ; Marty, J.L.; Vasilescu, A. <i>Advances in Enzyme-Based Biosensors for Pesticide Detection</i> . <b>Biosensors-Basel</b> 2018, 8, 28, doi:10.3390/bios8020027.	4	4.900	NU	1.225
28.	Q4	<b>Munteanu, F.D.</b> ; Sanislav, A.; Stanescu, M.D. <i>Coupled Electrochemical and Enzymatic Degradation of Two Anthraquinone Dyes</i> . <b>Rev. Roum. Chim.</b> 2015, 60, 233-239.	3	0.400	NU	0.400

29.	Q1	Sîrghie, C.; Bodescu, A.M.; Botar, A.; Cavaco-Paulo, A.; <b>Munteanu, F.D.</b> <i>Characterization of ligno-cellulosic materials bleached with oxo-diperoxomolybdates.</i> <b>Carbohydr. Polym.</b> 2013, 98, 490-494, doi:10.1016/j.carbpol.2013.06.021.	5	10.700	DA	10.700
30.	Q2	Fernandes, M.M.; Gomes, A.C.; Vasconcelos, A.; <b>Munteanu, F.D.</b> ; Tzanov, T.; Gonçalves, M.S.T.; End, N.; Schoening, K.U.; Guebitz, G.M.; Cavaco-Paulo, A. <i>Protein disulphide isomerase-assisted functionalization of keratin-based matrices.</i> <b>Appl. Microbiol. Biotechnol.</b> 2011, 90, 1311-1321, doi:10.1007/s00253-011-3194-6.	10	3.900	NU	0.390
31.	Q3	<b>Munteanu, F.D.</b> ; Cavaco-Paulo, A. <i>Biosensors Based on Laccase for Detection of Commercially Reactive Dyes.</i> <b>Anal. Lett.</b> 2010, 43, 1126-1131, doi:10.1080/00032710903518567.	2	1.600	DA	1.600
32.	Q1	<b>Munteanu, F.D.</b> ; Ferreira, P.; Ruiz-Dueñas, F.J.; Martinez, A.T.; Cavaco-Paulo, A. <i>Bioelectrochemical investigations of aryl-alcohol oxidase from Pleurotus eryngii.</i> <b>J. Electroanal. Chem.</b> 2008, 618, 83-86, doi:10.1016/j.jelechem.2008.02.023.	5	4.100	DA	4.100
33.	-	Tzanov, T.; <b>Munteanu, F.D.</b> ; Cavaco-Paulo, A. <i>CELL 130-Isomerases for functional modification of fibrous polymers.</i> <b>Abstr. Pap. Am. Chem. Soc.</b> 2007, 233, 674-674.	3	-	NU	-
34.	-	<b>Munteanu, F.D.</b> ; Dinca, N.; Cavaco-Paulo, A. <i>MALDI-ToF Mass Spectrometry In Textile Industry.</i> in <b>Proceedings of the NATO Advanced Research Workshop on Applications of Mass Spectrometry in Life Safety</b> , Arad, ROMANIA, Sep 24-27, 2007; pp. 193-+.	3	-	DA	-
35.	Q1	<b>Munteanu, F.D.</b> ; Basto, C.; Guebitz, G.M.; Cavaco-Paulo, A. <i>Staining of wool using the reaction products of ABTS oxidation by Laccase:: Synergetic effects of ultrasound and cyclic voltammetry.</i> <b>Ultrason. Sonochem.</b> 2007, 14, 363-367, doi:10.1016/j.ultsonch.2006.07.008	4	8.700	DA	8.700
36.	Q4	<b>Munteanu, F.D.</b> ; Gligor, D.; Popescu, I.C.; Gorton, L. <i>Formate dehydrogenase-modified carbon paste electrodes for amperometric detection of formate</i> <b>Rev. Roum. Chim.</b> 2006, 51, 25-30.	4	0.400	DA	0.400
37.	-	Fernandes, M.; Basto, C.; Zille, A.; <b>Munteanu, F.</b> ; Guebitz, G.M.; Cavaco-Paulo, A. <i>POLY 441-Sono-enzymatic polymerization of catechol.</i> <b>Abstr. Pap. Am. Chem. Soc.</b> 2006, 232 1.	6	-	NU	-

38.	Q3	Zille, A.; Munteanu, F.D.; Gübitz, G.M.; Cavaco-Paulo, A. <i>Laccase kinetics of degradation and coupling reactions</i> . <i>J. Mol. Catal. B-Enzym.</i> 2005, 33, 23-28, doi:10.1016/j.molcatb.2005.01.005.	4	2.269	NU	0.567
39.	Q1	Munteanu, F.D.; Ruiz-Dueñas, F.J.; Martinez, A.T.; Cavaco-Paulo, A. <i>Kinetics of direct and substrate-mediated electron transfer of versatile peroxidase-modified graphite electrodes</i> . <i>J. Electroanal. Chem.</i> 2005, 580, 35-40, doi:10.1016/j.jelechem.2005.02.022.	4	4.100	DA	4.100
40.	Q1	Munteanu, F.D.; Mano, N.; Kuhn, A.; Gorton, L. <i>NADH electrooxidation using carbon paste electrodes modified with nitro-fluorenone derivatives immobilized on zirconium phosphate</i> . <i>J. Electroanal. Chem.</i> 2004, 564, 167-178, doi:10.1016/j.jelechem.2003.10.034.	4	4.100	DA	4.100
41.	Q1	Munteanu, F.D.; Okamoto, Y.; Gorton, L. <i>Electrochemical and catalytic investigation of carbon paste modified with Toluidine Blue O covalently immobilised on silica gel</i> . <i>Anal. Chim. Acta</i> 2003, 476, 43-54, doi:10.1016/s0003-2670(02)01359-4.	3	5.700	DA	5.700
42.	Q2	Munteanu, F.D.; Dicu, D.; Popescu, I.C.; Gorton, L. <i>NADH oxidation using carbonaceous electrodes modified with dibenzo-dithia-diazapentacene</i> . <i>Electroanalysis</i> 2003, 15, 383-391, doi:10.1002/elan.200390044.	4	2.700	DA	2.700
43.	Q3	Dicu, D.; Munteanu, F.D.; Popescu, I.C.; Gorton, L. <i>Indophenol and o-quinone derivatives immobilized on zirconium phosphate for NADH electro-oxidation</i> . <i>Anal. Lett.</i> 2003, 36, 1755-1779, doi:10.1081/al-120023613.	4	1.600	NU	0.400
44.	Q2	Munteanu, F.D.; Mosbach, M.; Schulte, A.; Schuhmann, W.; Gorton, L. <i>Fast-scan cyclic voltammetry and scanning electrochemical microscopy studies of the pH-dependent dissolution of 2-electron mediators immobilized on zirconium phosphate containing carbon pastes</i> . <i>Electroanalysis</i> 2002, 14, 1479-1487, doi:10.1002/1521-4109(200211)14:21<1479::Aid-elan1479>3.0.Co;2-t.	5	2.700	DA	2.700
45.	Q1	Munteanu, F.D.; Mano, N.; Kuhn, A.; Gorton, L. <i>Mediator-modified electrodes for catalytic NADH oxidation: high rate constants at interesting overpotentials</i> . <i>Bioelectrochemistry</i> 2002, 56, 67-72, doi:10.1016/s1567-5394(02)00009-9.	4	4.800	DA	4.800
46.	Q1	Munteanu, F.D.; Kubota, L.T.; Gorton, L. <i>Effect of pH on the catalytic electro-oxidation of NADH using different two-electron mediators immobilised on</i>	3	4.100	DA	4.100



		<i>zirconium phosphate</i> . <b>J. Electroanal. Chem.</b> 2001, 509, 2-10, doi:10.1016/s0022-0728(01)00376-x.				
47.	<b>Q2</b>	<b>Munteanu, F.D.</b> ; Gorton, L.; Lindgren, A.; Ruzgas, T.; Emnéus, J.; Csöregi, E.; Gazaryan, I.G.; Ouporov, I.V.; Mareeva, E.A.; Lagrimini, L.M. <i>Direct and mediated electron transfer catalyzed by anionic tobacco peroxidase -: Effect of calcium ions</i> . <b>Appl. Biochem. Biotechnol.</b> 2000, 88, 321-333, doi:10.1385/abab:88:1-3:321.	<b>10</b>	<b>3.100</b>	<b>DA</b>	<b>3.100</b>
48.	<b>Q4</b>	Kubota, L.T., <b>Munteanu, F.</b> , Roddick-Lanzilotta, A., McQuillan, A.J., Gorton, L., Electrochemical investigation of some aromatic redox mediators immobilised on titanium phosphate, <b>Quimica Analitica</b> 19, 15-27	<b>5</b>	<b>0.571</b>	<b>NU</b>	<b>0.114</b>
49.	<b>Q1</b>	Gorton, L.; Lindgren, A.; Larsson, T.; <b>Munteanu, F.D.</b> ; Ruzgas, T.; Gazaryan, I. <i>Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors</i> . <b>Anal. Chim. Acta</b> 1999, 400, 91-108, doi:10.1016/s0003-2670(99)00610-8.	<b>6</b>	<b>5.700</b>	<b>DA</b>	<b>0.950</b>
50.	<b>Q1</b>	<b>Munteanu, F.D.</b> ; Lindgren, A.; Emnéus, J.; Gorton, L.; Ruzgas, T.; Csöregi, E.; Ciucu, A.; van Huystee, R.B.; Gazaryan, I.G.; Lagrimini, L.M. <i>Bioelectrochemical monitoring of phenols and aromatic amines in flow injection using novel plant peroxidases</i> . <b>Anal. Chem.</b> 1998, 70, 2596-2600, doi:10.1021/ac980022s.	<b>10</b>	<b>6.700</b>	<b>DA</b>	<b>6.700</b>
51.	<b>Q2</b>	Lindgren, A.; <b>Munteanu, F.D.</b> ; Gazaryan, I.G.; Ruzgas, T.; Gorton, L. <i>Comparison of rotating disk and wall-jet electrode systems for studying the kinetics of direct and mediated electron transfer for horseradish peroxidase on a graphite electrode</i> . <b>J. Electroanal. Chem.</b> 1998, 458, 113-120, doi:10.1016/s0022-0728(98)00326-x.	<b>5</b>	<b>4.100</b>	<b>NU</b>	<b>0.820</b>
52.	<b>BREVET</b>	Sîrghie Cecilia, Radu Dana Gina, <b>Munteanu Florentina-Daniela</b> , Pag Andreea, Dochia Mihaela, Tomescu Daniel, PROCESS FOR MELTING BAST FIBER PLANTS, SUCH AS: FLAX, HEMP, JUTE ETC, 2014	<b>6</b>	<b>1.000</b>	<b>NU</b>	<b>0.167</b>

\* Pentru articolele la care candidatul este autor principal factorul de impact nu a fost împărțit la numărul de autori

Îndeplinirea criteriilor minime:

Criteriu	Minim pentru abilitare, profesor, CS I	Realizat	Realizat în ultimii 5 ani
NT	25	51	25
NP	10 (6 în reviste cu FI > 1)	35 (27 în reviste cu FI > 1)	18 (12 în reviste cu FI > 1)
FIC	20	128.157	56.338
NC	100	1331	477

#### Publications

51

Total

From 1998 to 2024

#### Citing Articles

1,331 Analyze

Total

1,311 Analyze  
Without self-citations

#### Times Cited

1,483

Total

1,447

Without self-citations

29.08

Average per item

19

H-Index

**Declarație pe propria răspundere privind îndeplinirea standardelor minimale și obligatorii pentru acordarea atestatului de abilitare în vigoare la data publicării în Monitorul Oficial al României, Partea a III-a, a anunțului privind scoaterea la concurs a postului**

Subsemnata, MUNTEANU FLORENTINA-DANIELA, titular la UNIVERSITATEA „AUREL VLAICU,, DIN ARAD având funcția de profesor universitar, abilitată în domeniul INGINERIA MEDIULUI, candidat la postul de director CSUD din Universitatea „Aurel Vlaicu” din Arad,

cunoscând dispozițiile art. 326 din Codul penal privind falsul în declarații, declar pe proprie răspundere că îndeplinesc standardele minimale și obligatorii de abilitare CNATDCU pentru domeniul de studii universitare de doctorat sus-menționat, precum și că sunt autor/co-autor la lucrările științifice originale din lista prezentată în dosar.

Data: 23.09.2024

Semnă

✓

DECLARAȚIE,

Subsemnata MUNTEANU FLORENTINA-DANIELA

candidat la postul de director CSUD, sub sancțiunea suportării tuturor consecințelor legale pentru declarații false, prevăzute de Codul penal, declar pe propria răspundere că nu mă aflu în nici una din situațiile de incompatibilitate prevăzute de art. 10 și art. 11 din HG nr. 286/2011 cu modificările și completările ulterioare față de membrii comisiei de concurs.

Arad la: 23.09.2024

MUNTEANU FLORENTINA-DANIELA

(numele și prenumele)

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(semnătura)