

## LISTA DE LUCRĂRI

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

**1. Teza de doctorat: Munteanu F-D., 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. Cărți / cursuri publicate în edituri recunoscute sau pe plan local, îndrumare publicate/culegeri de probleme, cursuri proprii pe Web, prin care se aduc contribuții la dezvoltarea activităților didactice / profesionale**

1. **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
2. **Munteanu Florentina-Daniela**, *Fundamental and Applied Research on Recombinant and Wilde type Horseradish Peroxidase Based Biosensors*, Tipografia Universității Lund, Suedia 1997
3. **Munteanu Florentina-Daniela**, Adina Maria Bodescu, *Chimia Mediului: Noțiuni teoretice, aplicative și numerice*, Editura Universității Aurel Vlaicu, 2008 (ISBN 978- 973-752-232-0)
4. Annika Lindgren, Tautgirdas Ruzgas, Leonard Stoica, **Florentina-Daniela Munteanu**, and Lo Gorton *Cellobiose Dehydrogenase and Peroxidase Biosensors for Determination of Phenolic Compounds in Chemical and Biological Sensors for Environmental Monitoring*, A. Mulchandani and O. A. Sadik (Eds), ACS Symposium Series, vol. 762, 113.
5. **Munteanu Florentina-Daniela**, Nicolae Dincă, Artur Cavaco-Paulo, *MALDI-ToF Mass Spectrometry in Textile Industry*, Springer Verlag, ISBN 978-1-4020-8811-7
6. **Munteanu Florentina-Daniela**, Noțiuni de chimia mediului, <https://core.uav.ro/learning-cursuri?folder=dec603d0dacc791b2287&action=list>
7. **Munteanu Florentina-Daniela**, Elemente de electrochimie și coroziune, [https://core.uav.ro/learning-cursuri?form\\_submitted=1&folder=dec203d1dac5e2bf18d1](https://core.uav.ro/learning-cursuri?form_submitted=1&folder=dec203d1dac5e2bf18d1)
8. **Munteanu Florentina-Daniela**, Gestiunea substanțelor chimice periculoase,

<https://core.uav.ro/learning-cursuri?folder=dec203d0daced9a71fb79&action=list>

9. Ioan Calinovici, **Florentina-Daniela Munteanu**, Monica Lungu, Virgil Ciutină, Strategia de Combatere a plantelor invazive, <http://sesil.eu/ro>

## Lucrări indexate ISI/BDI

Nr.crt.	Zona încadrării lucrării	Publicații în Web of Science	Număr de autori	Factor de impact	Autor principal	Factor de impact/număr de autori
1.		<b>Munteanu, F.D.</b> ; Lindgren, A.; Emneus, J.; Gorton, L.; Ruzgas, T.; Csoregi, 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. Analytical Chemistry 1998, 70, 25962600.	10	6,785	DA	6,785
2.		Lindgren, A.; <b>Munteanu, F.D.</b> ; Gazaryan, I.G.; Ruzgas, T.; Gorton, L. 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. Journal of Electroanalytical Chemistry 1998, 458, 113-120.	5	3,807	NU	0.761
3.		Gorton, L.; Lindgren, A.; Larsson, T.; <b>Munteanu, F.D.</b> ; Ruzgas, T.; Gazaryan, I. Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors. Analytica Chimica Acta 1999, 400, 91-108.	6	5,977	NU	0.996
4.		<b>Munteanu, F.D.</b> ; Kubota, L.T.; Gorton, L. Effect of pH on the catalytic electro oxidation of nadh using different two-electron mediators immobilised on zirconium phosphate. Journal of Electroanalytical Chemistry 2001, 509, 2-10.	3	3,807	DA	3,807

5.		<b>Munteanu, F.D.;</b> Mano, N.; Kuhn, A.; Gorton, L. Mediator-modified electrodes for catalytic NADH oxidation: High rate constants at interesting overpotentials. <i>Bioelectrochemistry</i> 2002, 56, 67-72.	4	4,722	DA	4,722
6.		Persson, P.; Larsson, S.; Jonsson, L.J.; Nilvebrant, N.O.; Sivik, B.; <b>Munteanu, F.;</b> Thorneby, L.; Gorton, L. Supercritical fluid extraction of a lignocellulosic hydrolysate of spruce for detoxification and to facilitate analysis of inhibitors. <i>Biotechnology and Bioengineering</i> 2002, 79, 694-700.	8	4,002	NU	0,500
7.		<b>Munteanu, F.D.;</b> Okamoto, Y.; Gorton, L. Electrochemical and catalytic investigation of carbon paste modified with toluidine blue o covalently immobilised on silica gel. <i>Analytica Chimica Acta</i> 2003, 476, 43-54.	3	5,977	DA	5,977
8.		<b>Munteanu, F.D.;</b> Mano, N.; Kuhn, A.; Gorton, L. NADH electrooxidation using carbon paste electrodes modified with nitro-fluorenone derivatives immobilized on zirconium phosphate. <i>Journal of Electroanalytical Chemistry</i> 2004, 564, 167-178.	4	3,807	DA	3,807
9.		<b>Munteanu, F.D.;</b> Ruiz-Duenas, F.J.; Martinez, A.T.; Cavaco-Paulo, A. Kinetics of direct and substratemediated electron transfer of versatile peroxidasemodified graphite electrodes. <i>Journal of Electroanalytical Chemistry</i> 2005, 580, 35-40.	4	3,807	DA	3,807
10.		<b>Munteanu, F.D.;</b> Basto, C.; Gubitz, G.M.; CavacoPaulo, A. Staining of wool using the reaction products of abts oxidation by laccase: Synergetic effects of ultrasound and cyclic voltammetry. <i>Ultrasonics Sonochemistry</i> 2007, 14, 363-367.	4	6,513	DA	6,513

11.		<b>Munteanu, F.D.;</b> Ferreira, P.; Ruiz-Duenas, F.J.; Martinez, A.T.; Cavaco-Paulo, A. Bioelectrochemical investigations of aryl-alcohol oxidase from pleurotus eryngii. <i>Journal of Electroanalytical Chemistry</i> 2008, 618, 83-86.	5	3,807	DA	3,807
12.		Sirghie, C.; Bodescu, A.M.; Botar, A.; Cavaco-Paulo, A.; <b>Munteanu, F.D.</b> Characterization of lignocellulosic materials bleached with oxo-diperoxomolybdates. <i>Carbohydrate Polymers</i> 2013, 98, 490494.	5	7,182	DA	7,182
13.		<b>Munteanu, F.-D.;</b> Titoiu, A.M.; Marty, J.-L.; Vasilescu, A. Detection of antibiotics and evaluation of antibacterial activity with screen-printed electrodes. <i>Sensors (Basel, Switzerland)</i> 2018, 18.	4	3,847	DA	3,847
14.		Năstuneac, V.; Panainte-Lehăduș, M.; Moșneguțu, E.F.; Gavrilăș, S.; Cioca, G.; <b>Munteanu, F.-D.,</b> Removal of Cypermethrin from Water by Using <i>Fucus Spiralis</i> Marine Alga. <i>International Journal of Environmental Research and Public Health</i> <b>2019</b> , 16, 3663	6	4,614	DA	4,614
15.		Claudiu Ștefan Ursachi, Simona Perța-Crișan, <b>Florentina-Daniela Munteanu,</b> Strategies to Improve Meat Products' Quality, <i>Foods</i> , 2020, 9(12), 1883,	3	4,092	DA	4,092
16.		Ursachi, Claudiu Stefan, <b>Munteanu, Florentina-Daniela,</b> Cioca, Gabriela. The Safety of Slaughterhouse Workers during the Pandemic Crisis, <i>International Journal of Environmental Research and Public Health</i> , 2021, 18(5), 2633	3	4,614	DA	4,614

17.		Popitanu, Corina, Gabriela Cioca, Lucian Copolovici, Dennis Iosif, <b>Florentina-Daniela Munteanu</b> , and Dana Copolovici, The Seasonality Impact of the BTEX Pollution on the Atmosphere of Arad City, Romania, International Journal of Environmental Research and Public Health, 2021 18, no. 9: 4858.	6	4,614	NU	0,769
18.		Peța-Crișan, Simona, Claudiu Ștefan Ursachi, Simona Gavrițaș, Florin Oancea, and <b>Florentina-Daniela Munteanu</b> . 2021. "Closing the Loop with Keratin-Rich Fibrous Materials" Polymers 13, no. 11: 1896. <a href="https://doi.org/10.3390/polym13111896">https://doi.org/10.3390/polym13111896</a>	5	4,967	DA	4,967
19.		Gavrițaș, Simona, Claudiu Ștefan Ursachi, Simona Peța-Crișan, and <b>Florentina-Daniela Munteanu</b> . 2022. "Recent Trends in Biosensors for Environmental Quality Monitoring" Sensors 22, no. 4: 1513. <a href="https://doi.org/10.3390/s22041513">https://doi.org/10.3390/s22041513</a>	4	3,847	DA	3,847
20.		Perta-Crisan, Simona; Ursachi, Claudiu-Stefan; Chereji, Bianca-Denisa; <b>Munteanu, Florentina-Daniela</b> , Oleogels-Innovative Technological Solution for the Nutritional Improvement of Meat Products, Foods, 12(1), 131	4	5,561	DA	5,561
21.		<b>Munteanu, F.D.</b> ; 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.	5	2,544	DA	2,544
22.		<b>Munteanu, F.D.</b> ; Dicu, D.; Popescu, I.C.; Gorton, L. NADH oxidation using carbonaceous electrodes modified with dibenzo-dithia-diazapentacene. Electroanalysis 2003, 15, 383-391.	4	2,544	DA	2,544

23.		Fernandes, M.M.; Gomes, A.C.; Vasconcelos, A.; <b>Munteanu, F.D.</b> ; Tzanov, T.; Goncalves, M.S.T.; End, N.; Schoening, K.U.; Guebitz, G.M.; CavacoPaulo, A. Protein disulphide isomerase-assisted functionalization of keratin-based matrices. <i>Applied Microbiology and Biotechnology</i> 2011, 90, 13111321.	10	3,530	NU	0,353
24.		Bucur, Bogdan, <b>Florentina-Daniela Munteanu</b> , Jean-Louis Marty, and Alina Vasilescu. 2018. "Advances in Enzyme-Based Biosensors for Pesticide Detection" <i>Biosensors</i> 8, no. 2: 27. <a href="https://doi.org/10.3390/bios8020027">https://doi.org/10.3390/bios8020027</a>	4	5,743	NU	1,436
25.		Andrei, V., Copolovici, D., <b>Munteanu, F.-D.</b> , Wetie, Armand G. Ngounou, Mihai, I., Darie, C.Vasilescu, A., Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry, <i>Advancements of Mass Spectrometry In Biomedical Research</i> , 2nd Edition, 1140, 2019, 665-684	7	3,650	NU	0,521
26.		Castro, Tarsila G.; <b>Munteanu, Florentina-Daniela</b> ; Cavaco-Paulo, Artur, Electrostatics of Tau Protein by Molecular Dynamics, <i>Biomolecules</i> , 2019, 116	3	4,082	NU	1,361
27.		Cioca, G., <b>Munteanu, F.-D.</b> , Estimation of the Amount of Disposed Antibiotics Sustainability, 2019 11(6), 1800	2	3,889	DA	3,889
28.		Sabina Gabriela Ion, Teodor Brudiu, Anamaria Hanganu, <b>Munteanu F.</b> , Madalin Enache, GabrielMihai Maria, Madalina Tudorache, Vasile Parvulescu, <i>Molecules</i> , 25(21), 4921, 2020	8	4,927	NU	0,704

29.		Gavrilaş, Simona, Ioan Calinovici, Sabin Chiş, Claudiu-Ştefan Ursachi, Mirabela Raţ, and <b>Florentina-Daniela Munteanu</b> . 2022. "White Grape Pomace Valorization for Remediating Purposes" Applied Sciences 12, no. 4: 1997. <a href="https://doi.org/10.3390/app12041997">https://doi.org/10.3390/app12041997</a>	6	2,838	DA	2,838
30.		Castro, Tarsila G, Ferreira, Tiago, Matama, Teresa, <b>Munteanu, Florentina-Daniela</b> , Cavaco-Paulo, Artur, Acetylation and phosphorylation processes modulate Tau's binding to microtubules: A molecular dynamics study, Biochimica et Biophysica Acta-General Subjects, 1867(2), 130276	5	4,117	NU	0.823
31.		Dicu, D.; <b>Munteanu, F.D.</b> ; Popeseu, I.C.; Gorton, L. Indophenol and o-quinone derivatives immobilized on zirconium phosphate for NADH electro-oxidation. Analytical Letters 2003, 36, 1755-1779.	4	1,467	NU	0,367
32.		<b>Munteanu, F.D.</b> ; Cavaco-Paulo, A. Biosensors based on laccase for detection of commercially reactive dyes. Analytical Letters 2010, 43, 1126-1131.	2	1,467	DA	1,467
33.		<b>Munteanu, F.D.</b> ; Gorton, L.; Lindgren, A.; Ruzgas, T.; Emneus, J.; Csoregi, 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. Applied Biochemistry and Biotechnology 2000, 88, 321-333.	10	2,227	DA	2,227
34.		Zille, A.; <b>Munteanu, F.D.</b> ; Gubitz, G.M.; CavacoPaulo, A. Laccase kinetics of degradation and coupling reactions. Journal of Molecular Catalysis BEnzymatic 2005, 33, 23-28.	4	2,269	NU	0.567
35.		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. Quimica Analitica 2000, 19, 15-27.	5	0,571	NU	0.114

36.	<b>Munteanu, F.D.;</b> Gligor, D.; Popescu, I.C.; Gorton, L. Formate dehydrogenase-modified carbon paste electrodes for amperometric detection of formate. <i>Revue Roumaine de Chimie</i> 2006, 51, 25-30.	4	0,381	DA	0,381
37.	<b>Munteanu, F.D.;</b> Sanislav, A.; Stanescu, M.D. Coupled electrochemical and enzymatic degradation of two anthraquinone dyes. <i>Revue Roumaine De Chimie</i> 2015, 60, 233-239.	3	0,381	DA	0,381
38.	Constantin, Oana Emilia, Milea, Adelina Ștefania, Bolea, Carmen, Mihalcea, Liliana, Enachi, Elena, Copolovici, Dana Maria, Copolovici, Lucian, <b>Munteanu, Florentina,</b> Bahrim, Gabriela Elena and Râpeanu, Gabriela. "Onion ( <i>Allium cepa</i> L.) peel extracts characterization by conventional and modern methods" <i>International Journal of Food Engineering</i> , vol. 17, no. 6, 2020, pp. 485-493. <a href="https://doi.org/10.1515/ijfe-2020-0310">https://doi.org/10.1515/ijfe-2020-0310</a>	10	1,832	NU	1,832
39.	<b>Munteanu, F.D.;</b> Dinca, N.; Cavaco-Paulo, A. MALDI-ToF mass spectrometry in textile industry. in <i>Applications of mass spectrometry in life safety</i> , Popescu, C.; Zamfir, A.D.; Dinca, N., Eds. 2008; pp 193-+.			DA	
40.	Fernandes, M.; Basto, C.; Zille, A.; <b>Munteanu, F.;</b> Guebitz, G.M.; Cavaco-Paulo, A. Poly 441-sonoenzymatic polymerization of catechol. <i>Abstracts of Papers of the American Chemical Society</i> 2006, 232.			NU	
41.	Lindgren, A.; Ruzgas, T.; Stoica, L.; <b>Munteanu, F.;</b> Gorton, L. Cellobiose dehydrogenase and peroxidase biosensors for determination of phenolic compounds. <i>Abstracts of Papers of the American Chemical Society</i> 1999, 217, U789-U789.			NU	



42.		Tzanov, T.; <b>Munteanu, F.D.</b> ; Cavaco-Paulo, A. Cell 130-isomerases for functional modification of fibrous polymers. Abstracts of Papers of the American Chemical Society 2007, 233, 674-674.			NU	
43.		Zille, A.; <b>Munteanu, F.</b> ; Guebitz, G.M.; Artur, C.P. Laccase polymerization of amino-phenol compounds. Abstracts of Papers of the American Chemical Society 2005, 229, U955-U955.			NU	
44.		Nastuneac, V.,Gavrilas, S., <b>Munteanu, F.-D.</b> , Assesment of The Water Quality in Siret Hydrographic Basin, Scientific Study and Research-Chemistry and Chemical Engineering Biotechnology Food Industry, 2019, 20 (3), 471-480			DA	
45.		Simona Gavrilaş, Claudiu-Ştefan Ursachi, Mihaela Dochia, Simona Perta-Crişan, <b>Florentina-Daniela Munteanu</b> , The Influence Of Different Vacuum Impregnation Solutions On The Colour Of Fresh-Cut Apple Slices, <i>Scientific Study &amp; Research. Chemistry &amp; Chemical Engineering, Biotechnology, Food Industry</i> , 2020, 21(4), 523-5312			DA	
46.		Valentin Burcă, Luiela Magdalena Csorba, <b>Florentina-Daniela Munteanu</b> , Sergiu Rusu, The Romanian consumers' perception regarding the safety of dietary supplements, <i>Journal of Public Health Heidelberg</i> , 2021			NU	
47.	<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	6	1	NU	0.333

\* 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	45	17
NP	10 (6 in reviste cu FI > 1)	26 (21 in reviste cu FI > 1)	17 (8 în reviste cu FI > 1)
FIC	20	99,273	32,708
NC	100	1219	164

<p><b>Publications</b></p> <p><b>45</b> Total</p> <p>From 1997 ▾ to 2023 ▾</p>	<p><b>Citing Articles</b></p> <p><b>1,129</b> Analyze Total</p> <p><b>1,112</b> Analyze Without self-citations</p>	<p><b>Times Cited</b></p> <p><b>1,275</b> Total</p> <p><b>1,242</b> Without self-citations</p> <p><b>28.33</b> Average per item</p>	<p><b>17</b> H-Index</p>
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