

LISTA DE LUCRĂRI PUBLICATE

TEZA DE DOCTORAT

1. *Optimizarea procesului de distilare a plămezii de cereale prin automatizarea regimului de lucru al utilajelor*, Universitatea Transilvania din Brașov, 2005.

LISTĂ PUBLICAȚII

CĂRȚI / CAPITOLE:

1. **Mircea-Valentin Muntean**, Borsa Andrei, 2022, *Prelucrarea la presiune înaltă (HPP) a alimentelor*, AcademicPres, Cluj-Napoca, Romania, 978-973-744-961-0, (108 pag.)
2. **Mircea-Valentin Muntean**, Giorgiana Mihaela Catunescu, 2015, *Iridierea - metoda de conservare a produselor alimentare*, Risoprint 2015, Cluj-Napoca, Romania, 978-973-53-1692-1, (183 pag)

MANUALE DIDACTICE

1. **Muntean Mircea Valentin**, 2020, *Operatii Unitare în Industria Alimentară 1*, AcademicPres, Cluj Napoca, Romania, E-ISBN 978-973-744-816-3 (155 pag),
2. **Muntean Mircea - Valentin**, Molnar Irimie-Adrian, 2018, *Fenomene de Transfer*, AcademicPress, Cluj-Napoca, Romania, ISBN 978-973-744-667-1 (128 pag)
3. **Muntean Mircea - Valentin**, 2015, *Operatii unitare în Industria Alimentara*, Risoprint, ISBN 978-973-53-1576-4 (272 pag)
4. **Muntean Mircea**, Gherman Vasile, 2010, *Fenomene de Transfer, Note de curs si lucrari practice*, AcademicPres, ISBN 978-973-744-066-2 (101 pag)
5. **Muntean Mircea - Valentin**, 2007, *Aparate de masura și control și sisteme de măsurare în industria alimentară*, Risoprint, ISBN 978-973-751-575-9 (125 pag)
6. **Muntean Mircea**, Molnar Adrian, 2004, *Mecanică Tehnică*, Risoprint, ISBN 973-656-725-7 (194 pag)
7. Naghiu Livia, Naghiu Al., Serban Livia, Molnar A., **Muntean Mircea**, 2001, *Utilizarea energiei electrice în industria alimentară*, Risoprint, ISBN 973-656-091-0 (306 pag)

ÎNDRUMĂTOARE DE LUCRĂRI PRACTICE

1. Giorgiana Mihaela Catunescu, **Mircea-Valentin Muntean**, 2016, *Îndrumător de lucrări practice și aplicații în industria alimentară la Operatii Unitare*, AcademicPres, Cluj-Napoca, ISBN 978-973-744-531-5 (116 pag)

2. Adrian Molnar-Irimie, **Mircea-Valentin Muntean**, 2015, *Mecanica Fluidelor-Îndrumător de lucrări practice*, AcademicPres, Cluj-Napoca, Romania, 978-973-744-429-5 (69 pag)
3. **Muntean Mircea**, Molnar Adrian, Naghiu Alexandru, 2003, *Aplicații și îndrumător de proiect la tehnica frigului și climatizare în industria alimentară*, AcademicPres, ISBN 973-7950-26-7 (134 pag)

ARTICOLE ÎN REVISTE COTATE ISI THOMSON REUTERS ȘI ÎN VOLUME INDEXATE ISI PROCEEDINGS

1. **Mircea Valentin Muntean**, Anca Corina Fărcaș, Mădălina Medeleanu, Liana Claudia Salantă and Andrei Borsa, A sustainable approach for the development of innovative products from fruit and vegetable by-products, 2022, MDPI Sustainability, <https://doi.org/10.3390/su141710862>, **WOS:000851821000001, F.I. 3.889**, <https://doi.org/10.3390/su141710862>
2. Andrei Borsa, **Mircea Valentin Muntean** (al doilea prim autor), Liana Claudia Salantă, Maria Tofană, Sonia Ancuta Socaci, Elena Mudura, Anamaria Pop and Carmen Rodica Pop, *Effects of Botanical Ingredients Addition on the Bioactive Compounds and Quality of Non-Alcoholic and Craft Beer*, MDPI Plants 2022, 11(15), 1958; <https://doi.org/10.3390/plants11151958>, **WOS:000839271600001, F.I. 4. 658**, <https://www.mdpi.com/2223-7747/11/15/1958>
3. Ovidiu Ranta, Alexandru Ghețe, Sorin Stănilă, **Mircea Muntean**, *Influence of design of the disk furrow opener of no-till sowing machines on the seedbed quality*, Nardi Fundulea, Romania Romanian Agricultural Research, No. 38, 2021, **WOS:000681706500026, F.I. 0,5** <https://www.incda-fundulea.ro/rar/nr38/rar38.26.pdf>
4. Ovidiu Ranta, Ovidiu Marian, **Mircea Valentin Muntean**, Adrian Molnar, Alexandru Bogdan Ghet,e, Valentin Crisan, Sorin Stanila and Tibor Rittner, *Quality Analysis of Some Spray Parameters When Performing Treatments in Vineyards in Order to Reduce Environment Pollution*, MDPI SUSTAINABILITY 2021, Volume: 13 pagini 13, **WOS:000677040400001, F.I. 3,251**, <https://www.mdpi.com/2071-1050/13/14/7780>
5. Goncariuc Maria, **Mircea Valentin Muntean*** (autor corespondent), Violeta Butnaraş, Marcel Matei Duda, Anna Benea, Tamara Jelezneac, Zinaida Vornicu, Ludmila Cotelea and Pantelimon Botnarenco, *Quality Variation of the Moldovan Origanum vulgare L. ssp. vulgare L. and Origanum vulgare L. ssp. hirtum (Link) Ietsw.*, MDPI Agriculture 2021, 11(12), 1211; <https://doi.org/10.3390/agriculture11121211>, **WOS 000735727200001, FI 2.925**, <https://www.mdpi.com/2077-0472/11/12/1211>
6. Giorgiana M. Cătunescu, **Mircea Muntean**, Ovidiu Marian, Adriana Paula David, Ancuța M. Rotar, *Comparative effect of gamma irradiation, drying, and freezing on sensory, and hygienic quality of parsley leaves*, LWT-FOOD SCIENCE AND TECHNOLOGY, Volume 115, November 2019, **WOS:000487166400028, F.I. 3.714**, <https://doi.org/10.1016/j.lwt.2019.108448>
7. **Mircea-Valentin MUNTEAN**, Ovidiu-Marius MARIAN, Aurelia COROIAN, Zamfir Ioan MARCHIS, Bogdan ONICA, Sorin TERHES, *Cow milk marketed at dispensers - chemical composition and total number of germs*, SCIENTIFIC PAPERS SERIES D. ANIMAL SCIENCE Volume LXI, No. 2, 2018, ISSN 2285-5750; ISSN CD-ROM 2285-5769; ISSN Online 2393-2260; ISSN-L 2285-5750, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania, **WOS: 000454345800039**, http://animalsciencejournal.usamv.ro/pdf/2018/issue_2/Art39.pdf

8. Cătunescu, Giorgiana Mihaela, Sonia Ancuța Socaci, Ioan Rotar, Roxana Vidican, Florina Bunghez, Maria Tofană, Anca Pleșa, **Mircea Muntean**, Volatile profile of minimally processed herbs during cold storage, Romanian Biotechnological Letters, vol 21, no 5, oct 2016, Pages: 11923-119311224-5984, ISSN 1224-5984, WOS:000387969500015, F.I. 0,404 https://rombio.eu/vol21nr5--16_RBL_nr.5_Manuscript%20RBL%20-%20pe%20sablon.pdf,
9. Ovidiu Marian, **Mircea Valentin Muntean*** (autor corespondent), Ioan Drocaș, Ovidiu Ranta, Adrian Molnar, Giorgiana M. Cătunescu, Victor Bărbieru, *Assessment Method of Coverage Degree for Pneumatic Sprayers Used in Orchards*, Agriculture and Agricultural Science Procedia, Science Direct, Volume 10, 2016, p. 47-54, <http://www.sciencedirect.com/science/journal/22107843/10/supp/C>, ISSN: 2210-7843, WOS: 000387504900007, <https://doi.org/10.1016/j.aaspro.2016.09.008>
10. **Mircea-Valentin Muntean**, Ovidiu Marian, Victor Barbieru, Giorgiana M. Cătunescu, Ovidiu Ranta, Ioan Drocas, Sorin Terhes, *High Pressure Processing in Food Industry – Characteristics and Applications*, Agriculture and Agricultural Science Procedia (2016) pp. 377-383, <http://www.sciencedirect.com/science/journal/22107843/10/supp/C>, ISSN: 2210-7843, WOS: 000387504900052, <https://sci-hub.hkvisa.net/10.1016/j.aaspro.2016.09.077>
11. **Muntean, M**, Bratucu, G., *Research regarding energetical consumption at wheat mash distillation with preheating mash*, Buletinul Universității de Știinte Agricole și Medicină Veterinară Cluj-Napoca, Agricultură Series, vol 61, pg 328-333, 2005, ISSN: 1454-2382, (Revistă indexată ISI Proceedings), WOS:000237249400065
12. **Muntean, M**, Bratucu, G., *Sensors - Factors of optimisation distillation process*, Buletinul Universității de Știinte Agricole și Medicină Veterinară Cluj-Napoca, Agricultură Series, vol 60, pg 181-185, 2005, ISSN: 1454-2382, (Revistă indexată ISI Proceedings), WOS:000232801700035
13. **Muntean, M**; Bratucu, G, *Factors affecting distillation column operation*, Buletinul Universității de Știinte Agricole și Medicină Veterinară Cluj-Napoca, Agricultură Series, , vol 59, pg 209-211, 2003, (Revistă indexată ISI Proceedings), WOS:000229586700040
14. **Muntean, M**, Naghiu, A, *Tray efficiency alcohol distillation column*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj Napoca, vol. 59, pg. 212-214, 2003, (Revistă indexată ISI Proceedings), WOS:000229586700041
15. **Muntean, M**, Naghiu, A, Gherman, V., *Trends in process control with computers in food industry*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj Napoca, vol. 57, pg. 247-252, 2002, (Revistă indexată ISI Proceedings), WOS:000229582200056
16. **Muntean, M**, Britucu, G., Naghiu, A., *Energy consumption and balance in a distillation process of wheat and potatoes, analize in a clasical method in the pilot plant from Hohenheim-University, Germany*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj Napoca, vol. 57, pg. 243-246, 2002, (Revistă indexată ISI Proceedings), WOS:000229582200055

ARTICOLE ÎN ALTE BAZE DE DATE – BDI – 15 lucrari

1. Ovidiu MARIAN, **Mircea MUNTEAN** - Autor corespondent, Ovidiu RANTA, Adrian MOLNAR, Valentin CRIŞAN,*Sensors used to determine physical soil properties*, Proenvironment 2019, vol 12, nr. 38, pag 236, <http://journals.usamvcluj.ro/index.php/promediu/article/view/13669>
2. **Mircea - Valentin MUNTEAN**, Ovidiu– Marius MARIAN, Aurelia COROIAN, Zamfir Ioan MARCHIS , Cristian Ovidiu COROIAN, Bogdan ONICA, Sorin TERHES, *Aspects of Chemical Composition and Somatic Cell count of Cow Milk Marketed at Dispensers*, Bulletin USAMV series Agriculture 75(1)/2018, Print ISSN 1843-5246; Electronic ISSN 1843-5386 , DOI 10.15835/buasvmcn-agr: 003517, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/12937>
3. **Muntean M.V.**, O. Marian, I. Drocaş, O. Ranta, *The influence of PTO (power take off) speed on pressure and flow variation on the spraying machines*, Agriculture - Science and Practice Journal, ISSN 1221-5317 , Vol 89, no. 1- 2 (2014), <https://doi.org/10.15835/arspa.v89i1-2.10231>, <https://journals.usamvcluj.ro/index.php/agricultura/article/view/10231/8647>
4. **Mircea-Valentin MUNTEAN**, Ovidiu MARIAN, Ovidiu RANTA, Ioan DROCAS, Giorgiana Mihaela CATUNESCU, *The Influence of Hammer Type Used in Grinding Mills on Grist Fineness*, Vol 70, No 1 (2013): Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Food Science and Technology, <https://journals.usamvcluj.ro/index.php/fst/article/view/9355>
5. **Mircea-Valentin Muntean**, Ioan Drocas, Ovidiu Marian, Victor Barbieru, Ovidiu Ranta "Aspects of Thermoplastic Extrusion in Food Processing" Bulletin USAMV, Agriculture Volume 69 (2)/2012, pg 312-319, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/8779>
6. **Mircea Valentin Muntean**, I. Drocas, Ovidiu Marian, V. Barbieru, C. Topan, "Mathematical aspects of using electrostatic filters in food industry", Bulletin USAMV Agriculture, 68(2)/2011, pag. 352-356, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/6581>
7. **M Muntean**, I Drocas, S Stanila, A Molnar, O Ranta, O Marian, „Aspects regarding Granular System Phenomenon Flow from tanks and silo”, Bulletin USAMV Cluj, Agriculture, nr. 66 (2)/2009 pages 380-384, Print ISSN 1843-5246; Electronic ISSN 1843-5386, 2009, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/3989>
8. **M. Muntean**, V. Barbieru, Drocas I., Gherman V., NicoaraS., „Effect of intermittent vibration in the separation with sifting of mix polidisperse systems used in food industry and animal science”, Buletin USAMV Agriculture 65(2)2008, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/893>
9. **M. Muntean**, S. Stanilă, O. Ranta, A. Molnar, Adriana David, I. Drocaş, „Research regarding ethanol obtain by cattail rhizomes”, Bulletin USAMV Agriculture 63(1) 2007, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/1464>
10. Cristian Ovidiu Coroian, Vioara Miresan, Aurelia Coroian, Camelia Raducu, Luisa Andronie, Zamfir Marchis, sorin Terhes, **Mircea-Valentin Muntean**, *Biochemical and Hematological Blood Parameters at Different Stages of Lactation in Cows*, Bulletin UASMV Animal Science and Biotechnologies 74(1)/2017, Cluj Napoca, Romania, Print ISSN 1843-5262: Electronic ISSN 1843-536X, DOI:10.15835/buasvmcn-asb: 12283, <https://journals.usamvcluj.ro/index.php/zootehnie/article/view/12283>

11. Victor Adrian Bărbieru, Mihai Olar, Ovidiu Ranta, **Mircea Muntean**, Ovidiu Marian, Laurenț Ognean, Georgiana Cătunescu, *Influence of climate factors and plant varieties on the hay technology (fibrous feed)*, Buletin USAMV CN, series Agriculture 73(2) 2016, pag 149-152, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/12404>
12. I. Drocas, O. M. Marian, O. Ranta, A. Molnar, **M. Muntean**, Giorgiana Cătunescu, *Study on determining the degree of coverage when performing phytosanitary treatments using water sensitive paper*, Lucrări Științifice – vol. 57 (1) 2014, seria Agronomie EDITURA “ION IONESCU DE LA BRAD” IAȘI 2014, PRINT ISSN: 1454-7414, ELECTRONIC ISSN: 2069-6727, [http://www.uaiasi.ro/revagrois/PDF/2014-1/paper/2014-57\(1\)_29-en.pdf](http://www.uaiasi.ro/revagrois/PDF/2014-1/paper/2014-57(1)_29-en.pdf),
13. I. Drocas, O. M. Marian, O. Ranta, A. Molnar, **M. Muntean**, *Determination of Specific Energy Consumption and Grain Size for Corn Grinding Using the Hammer Mill MB7,5*, Bulletin USAMV series Agriculture 71(2)/2014, Print ISSN 1843-5262; Electronic ISSN 1843-536X, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/10888>
14. Ovidiu RANTA, Ioan DROCAŞ, Sorin STĂNILĂ, Adrian MOLNAR, **Mircea MUNTEAN**, Ovidiu MARIAN, *Influence the Coulter Type on the Seed- Soil Contact in No-till Technology*, Bulletin UASMV serie Agriculture 70(1), Cluj Napoca, Romania, Print ISSN 1843-5246; Electronic ISSN 1843-5386, 2013, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/9782>
15. Giorgiana Mihaela Catunescu, Maria Tofana, Crina Muresan, Floricuta Ranga, Adriana David, **Mircea Muntean**, *The effect of cold storage on some Quality Characteristics of Minimally Processed parsley (*Petroselinum Crispum*), Dill (*Anethum graveolens*) and Lovage (*Levisticum officinale*)*, Bulletin USAMV 2012, Agriculture Volume 69 (2), pg 213-219, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/8763>
16. Ioan Drocas, O. Marian. A. Molnar, **M. Muntean**, V. Barbieru, T. Bidian, *The Influence of Nozzle Type on the Coverage Degree when Performing Phytosanitary Treatments*, The 14th International Symposium PROSPECTS FOR 3rd MILLENNIUM AGRICULTURE 24 - 26 September, 2015 Cluj-Napoca, Romania Buletin USAMV, series Agriculture 72 (2) 2015, ISSN 1843-5246, 2015, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/11757>
17. Barbieru V.A., G. Onaciu, I. Drocas, **M. Muntean**, *Results obtained crossing Romanian spotted cows with Red Holstein bulls at Research Station Jucu, Cluj County*, Revista Agricultura-Stiinta si practica nr. 3 -4 (95 - 96)/2015, Cluj-Napoca, Romania, ISSN 1221-5317, 2015, <http://dx.doi.org/10.15835/arspa.v95i3-4.11786>, <https://journals.usamvcluj.ro/index.php/agricultura/article/view/11786/9640>
18. Ovidiu Marian, Ioan Drocaş, Adrian Molnar, **Mircea Muntean**, Ovidiu Ranta, *Research on the Changed Operating Parameters during Operation MMAT 110-03 and IDK 120-04 Nozzles*, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Agriculture, 2015, <http://dx.doi.org/10.15835/arspa.v95i3-4.11786>, https://scholar.google.com/scholar?lookup=0&q=Research+on+the+Changed+Operating+Parameters+during+Operation+MMAT+110-03+and+IDK+120-04+Nozzles.&hl=ro&as_sdt=0,5
19. Victor A. Bărbieru, **Mircea Muntean**, Adriana David, Ovidiu Marian, *Determination of Milling Module for Different Categories of Concentrates Feeds (Grain: Wheat and Corn)*, Bulletin UASVM Animal Science and Biotechnologies 71(2) / 2014, Print ISSN 1843-5262; Electronic ISSN 1843-536X, <https://journals.usamvcluj.ro/index.php/zootehnie/article/view/10401>

20. Ioan DROCAŞ, Ovidiu MARIAN, Cristian COSTEA, Ovidiu RANTA, Sorin STĂNILĂ, **Mircea Muntean**, *Researches Regarding the Influence of Pressure on Uniformity of Distribution for New Types of Nozzles*, Bulletin UASMV serie Agriculture 70(1), Cluj Napoca, Romania, Print ISSN 1843-5246; Electronic ISSN 1843-5386, 2013, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/9781>
21. Ranta Ovidiu, Ioan Drocas, Sorin Stanila, Adrian Molnar, **Mircea Muntean**, Ovidiu MARIAN, *Comparative Analysis of Distribution Devices usedf or Precision Sowing Machines*, ProEnvironment 6, No 14, 159-163, Cluj Napoca, Romania, April 2013, www.proenvironment.ro, <https://journals.usamvcluj.ro/index.php/promediu/article/view/9874>
22. Ovidiu MARIAN, Ioan DROCAŞ,Cristian COSTEA, Ovidiu RANTA, Sorin STĂNILĂ, **Mircea Muntean**, *Researches Regarding the Influence of Height on Uniformity of Distribution of New Types of Nozzles*, Bulletin UASMV serie Agriculture 70(1), Cluj Napoca, Romania, Print ISSN 1843-5246; Electronic ISSN 1843-5386, 2013, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/9784>
23. Ranta O, Drocas I, Marian O, Molnar A, Stanila S, **Muntean M**, „*Variation of Transversal Distribution for EEP-600 ME in corelation with boom stability*”, Research Journal of Agricultural Science 44(1) 2012, 289-293, https://www.rjas.ro/paper_detail/1335
24. Ovidiu Ranta, Ioan Drocas, Sorin Stanila, Adrian Molnar, **Mircea Muntean**, Ovidiu Marian "The Main Advantages of E-Drive System Used for Precision Seeding", Bulletin USAMV 2012, Agriculture Volume 69 (1), pg 238-243, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/8685>
25. Ovidiu Marian, Drocas Ioan, Ovidiu Ranta, **Mircea Muntean**, Adrian Molnar "Determination of Vertical Air Speed of the liquid distribution for Atom 300 Orchard Spraying Machine" Bulletin USAMV 2012, Agriculture Volume 69 (1), pg 64-69, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/8657>
26. Ranta Ovidiu, I. Drocas, S.Stanila, A. Molnar, **M-V Muntean**, O. Marian, "Analysis of working qualitative parametrs for no-till machines", Bulletin USAMV Agriculture 68 (1)/2011, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/6458>
27. Ioan Drocas, O. Marian, O. Ranta, **M. Muntean**, A. Molnar, „*Research regarding the flow rate and pressure variation for the nozzles mounted on the Eep-600 m Spraying machine*”, Bulletin USAMV Agriculture, 68 (1)/2011, 119-123, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/6428>
28. Drocas Ioan, Marian Ovidiu, Ranta Ovidiu, Molnar Adrian, Stanila Sorin, Muntean Mircea, "Study regarding air speed created by axial fan of the orchard sprayng machines", BULLETIN USAMV 2010, VOLUME 67 (1) , AGRICULTURA, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/5018>
29. Drocas I., Molnar A., **Muntean M.**, Stanila S., Ranta O, „*Influence of boom inclination angle on uniformity distribution for spraying machines*,” Bulletin USAMV Cluj, Agriculture, nr. 66 (1)/2009, pages 319-322, Print ISSN 1843-5246; Electronic ISSN 1843-5386, 2009, <https://journals.usamvcluj.ro/index.php/agriculture/article/view/4011>

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