

## LISTA LUCRĂRILOR ȘTIINȚIFICE PUBLICATE

### Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante

1. **Băetu M.M.**, Țenu I., Cârlescu P., Pahoni C., Barcan (Băetu) Alina Loredana, 2012 - Research on experiment the hydrocyclon SLV02 for the partial separation of the must, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.1, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.537-540, CABI Record Number : 20123394906.
2. **Băetu M.M.**, Cârlescu P., Țenu I., 2013 – Research on CFD simulation of a new type of hydrocyclon used in the winemaking industry. *Lucrări stiintifice, USAMV Iași, Seria Horticultură*, vol. 56, nr.1. Edit."Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.411-416, CABI Record Number : 20133338066.
3. **Băetu M.**, Arsenoaia V., Țenu I., Cârlescu P., 2019 - Studies regarding CFD simulation of the clearing process for the grape raw juice in a hydrocyclon, *Proceedings of the International Scientific Congress "Life sciences, a challenge for the future"*, Iași, ISBN 978-88-85813-63-2, p.151-156; WOS:000747623800025
4. **Băetu M.M.**, Cârlescu P., Roșca R., Filimon R., Rittner T., Țenu I. 2017 – CFD simulation of the must flow in a hydrocyclon, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 60, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.363-368.
5. Țenu I., Rosca R., Carlescu P., Roman C., Senila L., Arsenoaia V., Dumitrache E., **Baetu M.**, Corduneanu O.R., 2020 - Researches regarding evaluation of energy consumption for manufacturing of pellets from vine pruning residues, *Proceedings 19th International Scientific Conference ENGINEERING FOR RURAL DEVELOPMENT, Latvia University of Life Sciences and Technologies, Faculty of Engineering, Vol. 19, pag.54-62; doi: 10.22616/ERDev2020.19.TF013; WOS:000815085500005.*
6. Țenu, I.; Roman, C.; Senila, L.; Roșca, R.; Cârlescu, P.; **Băetu, M.**; Arsenoaia, V.; Dumitrachi, E.P.; Corduneanu, O.R. 2021 - Valorization of Vine Tendrils Resulted from Pruning as Densified Solid Biomass Fuel (Briquettes). *Processes* 2021, 9, 1409. <https://doi.org/10.3390/pr9081409>. WOS:000689945600001 (IF 2020 = 2.847).
7. Petru-Marian Cârlescu, **Marius Băetu**, Virginia Ciobanu, Ioan Țenu, Radu Roșca, 2021 - Comparison of two microwave drying techniques for cereal seeds and determination of their physical parameters, *Journal of applied Life Sciences and Enviroment*, Vol. LIV, Issue 2 (186)/2021:216-224, DOI: 10.46909/journalalse-2021-019
8. **Băetu M.M.**, Cârlescu P., Țenu I., Stamate N., 2022 – Trends in grain storage in warehouses and silos. *Lucrări stiintifice, USV Iași, Seria Agronomie*, vol. 65, Supliment. Edit."Ion Ionescu de la Brad", Iasi, ISSN 2069-7627, p.115-118.
9. Vlad Nicolae Arsenoaia, Gheorghe Radu Roșca, Petru Cârlescu, **Marius Băetu**, Roxana Rațu, Ionuț Veleşcu, Ioan Țenu, 2023 - Drying process modeling and quality assessments regarding an innovative seed dryer, *Agriculture* 2023, 13(2), 328; <https://doi.org/10.3390/agriculture13020328>; WOS:000938024200001 (IF = 3,6)
10. Cârlescu, Petru Marian, **Mihai-Marius Băetu**, Radu Roșca, and Ioan Țenu. 2023. "Studies on the Physical Changes in Corn Seeds during Hybrid Drying (Convection and Microwave)" *Agriculture* 13, no. 3: 519. <https://doi.org/10.3390/agriculture13030519>; WOS:000952806600001 (IF = 3,6)

### Brevete de invenție

1. Cârlescu P., Țenu I., Vîntu V, Roșca R, Nicolescu M, Arsenoaia V N, **Baetu M M**, TEHNOLOGIE ȘI ECHIPAMENT PENTRU USCAREA ÎN CONDIȚII DE LABORATOR A BIOMASEI DIN COARDE DE VIȚĂ DE VIE, nr. 000833, RO135080 A2, RO-BOPI 6/2021, pp. 29, din 30.06.2021.
2. Tenu I, Vintu V, Nicolescu M, Cârlescu P., Rosca R, Arsenoaia V N, **Baetu M M**, TEHNOLOGIE ȘI ECHIPAMENT PENTRU PRELUCRAREA PELETELOR DIN COARDE DE VIȚĂ DE VIE, nr. 000834, RO135050-A2, RO-BOPI 6/2021, pp. 46-47, din 30.06.2021.

### Articole/studii în extenso, publicate în reviste cotate ISI cu factor de impact:

1. Filimon V.R., Filimon Roxana, Nechita Anuța, **Băetu M.M.**, Rotaru Liliana, Arion Cristina, Patraș Antoanela, 2017. Assessment of quality characteristics of new Vitis vinifera L. cultivars for temperate climate vineyards. Acta Agriculturae Scandinavica, Section B - Soil & Plant Science, 67 (5): 405-415. <http://dx.doi.org/10.1080/09064710.2017.1285959>, WOS:000400070000003. (IF 2016 = 0.651).
2. Corduneanu, O.R., Stoleru V., Roșca, R., Cârlescu, P., **Băetu, M.**, Țenu, I., 2021 - Use of fertigation systems for environmental safety of solanaceae species under protected spaces. Environmental Engineering and Management Journal, vol.20, Issue 4, p. 579-584, ISSN 1582-9596, WOS:000637747700009, (IF 2020 = 0,916).
3. Țenu, I.; Roman, C.; Senila, L.; Roșca, R.; Cârlescu, P.; **Băetu, M.**; Arsenoaia, V.; Dumitrachi, E.P.; Corduneanu, O.R. 2021 - Valorization of Vine Tendrils Resulted from Pruning as Densified Solid Biomass Fuel (Briquettes). Processes 2021, 9, 1409. <https://doi.org/10.3390/pr9081409>. WOS:000689945600001 (IF 2020 = 2.847).
4. Vlad Nicolae Arsenoaia, Gheorghe Radu Roșca, Petru Cârlescu, **Marius Băetu**, Roxana Rațu, Ionuț Veleşcu, Ioan Țenu, 2023 - Drying process modeling and quality assessments regarding an innovative seed dryer, Agriculture 2023, 13(2), 328; <https://doi.org/10.3390/agriculture13020328>; WOS:000938024200001 (IF = 3,6)
5. Cârlescu, Petru Marian, **Mihai-Marius Băetu**, Radu Roșca, and Ioan Țenu. 2023. "Studies on the Physical Changes in Corn Seeds during Hybrid Drying (Convection and Microwave)" Agriculture 13, no. 3: 519. <https://doi.org/10.3390/agriculture13030519>; WOS:000952806600001 (IF = 3,6)

### Articole/studii în extenso, publicate în reviste sau conferințe cotate/indexate ISI fără factor de impact:

1. Cârlescu Petru, Țenu Ioan, **Băetu Marius**, Roșca Radu, 2014 - CFD Study On Must Of Grapes Separation In A Hydrocyclone, Advanced Materials Research Vol. 837 (2014) p. 645-650, doi: 10.4028/www.scientific.net/AMR.837.645, ISSN 1022-6680; WOS:000337000500112.
2. **Băetu M.**, Arsenoaia V., Țenu I., Cârlescu P., 2019 - Studies regarding CFD simulation of the clearing process for the grape raw juice in a hydrocyclon, Proceedings of the International Scientific Congress "Life sciences, a challenge for the future", Iași, ISBN 978-88-85813-63-2, p.151-156; WOS:000747623800025
3. Arsenoaia V., **Băetu M.**, Cârlescu P., Țenu I., 2019 - Research regarding the influence of drying agent's velocity and temperature on the work process of sunflower seed dehydration, Proceedings of the International Scientific Congress "Life sciences, a challenge for the future", Iași, ISBN 978-88-85813-63-2, p. 146-150; WOS:000747623800024

4. Tenu I., Rosca R., Carlescu P., Roman C., Senila L., Arsenoiaia V., Dumitrache E., **Baetu M.**, Corduneanu O.R., 2020 - Researches regarding evaluation of energy consumption for manufacturing of pellets from vine pruning residues, Proceedings 19th International Scientific Conference ENGINEERING FOR RURAL DEVELOPMENT, Latvia University of Life Sciences and Technologies, Faculty of Engineering, Vol. 19, pag.54-62; doi: 10.22616/ERDev2020.19.TF013; WOS:000815085500005.

#### Articole/studii în extenso, publicate în reviste indexate BDI

1. BĂETU Alina Loredana, **BĂETU M.**, 2011 - General issues concerning content of ascorbic acid in processed horticultural products, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 54, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p. 307-312, CABI Record Number : 20123156933.
2. **Băetu M.M.**, Țenu I., Pahoni C., Barcan (Băetu) Alina Loredana, 2012 - Research on optimizing the pressing process on the vertical hydropress with bellows, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.1, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.541-544, CABI Record Number : 20123394907.
3. **Băetu M.M.**, Țenu I., Cârlescu P., Pahoni C., Barcan (Băetu) Alina Loredana, 2012 - Research on experiment the hydrocyclon SLV02 for the partial separation of the must, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.1, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.537-540, CABI Record Number : 20123394906.
4. PATRAȘ Antoanela, BĂETU Alina Loredana, ARION Cristina, FILIMON R., **BĂETU M.M.**, LUCHIAN Camelia Elena, 2012 – Biochemical modifications in some horticultural products as consequence of thermal processing, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.431-436, CABI Record Number : 20123394993.
5. PAHONI C., ȚENU I., **BĂETU M.M.**, 2012 - Research regarding the determination of the working indexes for the grain combines harvesters in wheat and barley harvesting, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.1, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.545-550, CABI Record Number : 20123394908.
6. PAHONI C., ȚENU I., **BĂETU M.M.**, 2012 - Research regarding the determination of the working indexes for the NEW HOLLAND TC 5050 combine in maize grain harvesting , *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.1, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.551-556, CABI Record Number : 20123394909.
7. BARCAN (BĂETU) Alina, PATRAȘ Antoanela, ANGHIEL Roxana, ANDREI Corina, ARION Cristina, **BĂETU M.**, 2012- Changes of the ascorbic acid content in cabbage as result of processing - *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.413-418, CABI Record Number : 20123394990.
8. ANDREI Corina, ȚÂRCĂ Felicia, BARCAN (Băetu) Alina, **BĂETU M.**, 2012 - Studies on the dynamics of pesticide residues content during the technological process of obtaining tomato juice at SC Contec Foods SRL Tecuci, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.395-400, CABI Record Number : 20123394987.
9. ANDREI Corina, ȚÂRCĂ Felicia, BARCAN (Băetu) Alina, **BĂETU M.**, 2012 - Studies on the dynamics of heavy metals content during the process flow for obtaining tomato juice at SC Contec Foods SRL Tecuci, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.401-406, CABI Record Number : 20123394988.

10. BARCAN (BĂETU) Alina, PATRAȘ Antoanela, ANGHEL Roxana, ANDREI Corina, **BĂETU M.M.**, FILIMON R., 2012 - Influence of technological process content of ascorbic acid on beet salad - *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 55, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.407-412, CABI Record Number : 20123394989.
11. **Băetu M.M.**, Cârlescu P., Țenu I., 2013 – Research on CFD simulation of a new type of hydrocyclon used in the winemaking industry. *Lucrări stiintifice, USAMV Iași, Seria Horticultură*, vol. 56, nr.1. Edit."Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.411-416, CABI Record Number : 20133338066.
12. FILIMON V. R., **BĂETU M.**, NECHITA Ancuța, FILIMON Roxana, NICULAU M., ROTARU Liliana, 2016 - Assessment of 5-hydroxymethylfurfural content in dry and sweetened white wines, *Lucrări Științifice USAMV Iași, Seria Horticultură*,. 59 (1), ISSN 2067-1865, CABI Record Number : 20173050984;
13. FILIMON V.R., NECHITA Ancuța, DAMIAN Doina, PAȘA Rodica, FILIMON Roxana, **BĂETU M.M.**, MIHAI C.T., NICULAU M., 2017. Separation and characterisation of the main proanthocyanidin fractions of grape seeds. *Lucrări Științifice USAMV Iași, Seria Horticultură*, 60, ISSN 2067-1865, CABI Record Number : 20193338181;
14. **Băetu M.M.**, Cârlescu P., Roșca R., Filimon R., Rittner T., Țenu I. 2017 – CFD simulation of the must flow in a hydrocyclon, *Lucrari stiintifice, USAMV Iasi, Seria Horticultura*, vol. 60, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN 2069-8275, p.363-368.
15. Vlad Nicolae ARSENOAIA, **Marius BĂETU**, Otilia Cristina MURARIU, Dragoș ROBU, Petru Marian CÂRLESCU, Ioan ȚENU, 2018 - Performance assessments and the effect on barley seed quality regarding a new developed grain dryer, *Lucrări Științifice USAMV Iași, Seria Agricultura*, vol. 61, nr.2, Editura "Ion Ionescu de la Brad", Iasi, ISSN: 1454-7414, p.21-24, CABI Record Number : 20209906253.
16. Oana-Raluca Corduneanu, Ioan Țenu, Vasile Stoleru, Radu Roșca, Petru-Marian Cârlescu, **Marius Băetu**, 2018. Research on the influence of fertilization and irrigation method of tomatoes over the production, *Lucrări Științifice USAMV Iași, Seria Horticultură*, 61, ISSN 2067-1865, pp.183-190, CABI Record Number : 20203183737;
17. Antoanela Patraș, **Marius Băetu**, Alina-Loredana Băetu, 2018 - La stabilité du contenu en acide ascorbique pendant le flux technologique d'obtention du produit" chou-fleur au vinaigre", *Lucrări Științifice USAMV Iași, Seria Horticultură*, 61, ISSN 2067-1865, pp.467-470, CABI Record Number : 20203183775;
18. **Băetu M.**, Arsenoia V., Țenu I., Cârlescu P., 2019 - Studies regarding CFD simulation of the clearing process for the grape raw juice in a hydrocyclon, *Proceedings of the International Scientific Congress "Life sciences, a challenge for the future"*, Iași, ISBN 978-88-85813-63-2, p.151-156; WOS:000747623800025
19. PE Dumitrachi, Oana-Raluca Corduneanu, **Marius Băetu**, Petru-Marian Cârlescu, Ioan Țenu, 2019 - Researches regarding the use as a biomass of the branches resulting from orchard pruning of different species of trees, *Lucrări Științifice USAMV Iași, Seria Horticultură*, 62, ISSN 2067-1865, pp.145-150, CABI Record Number : 20203180898;
20. Antoanela Patraș, Alina-Loredana Băetu, **Marius Băetu**, 2019 - Evolution of the polyphenolic content during the technological flow of apricot compote fabrication, *Lucrări Științifice USAMV Iași, Seria Horticultură*, 62, ISSN 2067-1865, pp.163-168, CABI Record Number : 20219956692;
21. Antoanela Patraș, Alina-Loredana Băetu, **Marius Băetu**, 2020 - Dynamics of vitamin C content during the technological processes of "Romanian peppers in vinegar" fabrication,

- Lucrări Științifice USAMV Iași, Seria Horticultură, 63, ISSN 2067-1865, pp.23-28, CABI Record Number : 20219808033;
22. Patras, A. ; Chiruta, C. ; Balan, M. ; Visanu, V. ; Melenciuc, M. ; Turculet, N. ; Boestean, O. ; Covaci, E. ; **Baetu, M. M.** ; Teliban, G. C. ; Filimon, R. V., 2021 - The agro-food industrial wastes in the perception of the inhabitants from eastern Romania and the Republic of Moldova. *Lucrări Științifice USAMV Iași, Seria Horticultură*, 64(1), pp. 109-120, CABI Record Number : 20230124073
  23. **Băetu M.M.**, Cârlescu P., Țenu I., Stamate N., 2022 – Trends in grain storage in warehouses and silos. *Lucrări știintifice, USV Iași, Seria Agronomie*, vol. 65, Supliment. Edit."Ion Ionescu de la Brad", Iasi, ISSN 2069-7627, p.115-118.
  24. Petru-Marian Cârlescu, **Marius Băetu**, Virginia Ciobanu, Radu Roșca, Ioan Țenu, 2022 - Research on the physical changes of cereal seeds dried in the innovative equipment hybrid drying. *Lucrări Științifice USV Iași, Seria Agronomie*, vol. 65, nr.1, Editura "Ion Ionescu de la Brad", Iasi, ISSN: 1454-7414, p.225-228, CABI Record Number : 20230123792.
  25. Cârlescu Petru Marian, **Băetu Marius**, Roșca Radu, Țenu Ioan, 2022 - Research on the operation of an innovative equipment hybrid drying. *Lucrări Științifice USV Iași, seria Agronomie*, vol. 65(1), ISSN 1454-7414, pp.35-38, CABI Record Number : 20230123762

**Publicații în extenso, apărute în lucrări/volume ale principalelor conferințe internaționale de specialitate**

1. PATRAȘ, Antoanela, BAETU, Alina Loredana, **BĂETU, Mihai-Marius**. Stability of ascorbic acid during the technological processes of apricot compote fabrication. In: *Journal of Engineering Sciences*, 2020, vol. 27, nr. 1, pp. 107-112. ISSN 2587-3474. DOI: 10.5281/zenodo.3713376
2. Cârlescu Petru Marian, Țenu Ioan, **Băetu Marius**, Arsenoiaia Vlad, Roșca Radu, 2022 - Coupled electromagnetic and heat transfer model for grain seeds drying in a hybrid dryer, a X-a Conferință internațională pentru agricultură, alimentație și mediu, HAICTA 2022. CEUR Workshop Proceedings, 3293, pp. 108–115.
3. Cârlescu Petru Marian, Țenu Ioan, **Băetu Marius**, Arsenoiaia Vlad, Roșca Radu, 2022 - Simulation of grain seed motion in a hybrid dryer with CFD-DEM coupling approach, a X-a Conferință internațională pentru agricultură, alimentație și mediu, HAICTA 2022, CEUR Workshop Proceedings, 2022, 3293, pp. 116–124

**Alte lucrări și contribuții științifice:**

**În volume ale unor congrese/conferințe internaționale pe domenii (cu ISBN/ISSN)**

1. Băetu Alina-Loredana, Patraș Antoanela, **Băetu M.**, Ghendov-Moșanu Aliona - *Jam processing effects on ascorbic acid, phenolic compounds and enzymatic activities in sour cherry fruits*, Proceedings of International „Conference Modern Technologies in te Food Industry” Chișinău, Republica Moldova, ISBN 978-9975-87-138-9, 2016
2. **BĂETU, Mihai-Marius**, PATRAȘ, Antoanela, CÂRLESCU, Petru Marian. Stability of agro-industrial waste through the convective drying process. In: *Intelligent Valorisation of Agro-Food Industrial Wastes*, 7-8 octombrie 2021, Chișinău. Chișinău: Tipografie „MS Logo” SRL, 2021, R, p. 27. ISBN 978-9975-3464-2-9
3. Apostol, Maria, **Băetu, Mihai-Marius**, Filimon, Razvan Vasile, Patraș, Antoanela. The influence of white and red grape marc extracts on the rooting of *Sansevieria Trifasciata*. In: *Intelligent Valorisation of Agro-Food Industrial Wastes*, 7-8 octombrie 2021,

Chişinău. Chişinău: Tipografie „MS Logo” SRL, 2021, R, p. 57. ISBN 978-9975-3464-2-9.

4. Patraş, Antoanela, Chiruta, Ciprian, Teliban, Gabriel-Ciprian, **Băetu, Mihai-Marius**, Sturza, Rodica. Inhabitants' opinion concerning the agro-food industrial wastes. In: Intelligent Valorisation of Agro-Food Industrial Wastes, 7-8 octombrie 2021, Chişinău. Chişinău: Tipografie „MS Logo” SRL, 2021, R, p. 19. ISBN 978-9975-3464-2-9.
5. Teliban, Gabriel-Ciprian, Stoleru, Vasile, **Băetu, Mihai-Marius**, Mihalache, Gabriela, Patraş, Antoanela. Use of different agro-food wastes to fertilize the lettuce culture. In: Intelligent Valorisation of Agro-Food Industrial Wastes, 7-8 octombrie 2021, Chişinău. Chişinău: Tipografie „MS Logo” SRL, 2021, R, p. 60. ISBN 978-9975-3464-2-9.
6. Patraş, Antoanela, Chiruţă, Ciprian, Teliban, Gabriel-Ciprian, **Băetu, Mihai-Marius**, Balan, Mihail, Vişanu, Vitali, Melenciuc, Mihail. Deşeurile industriale agroalimentare în percepţia consumatorilor din estul României şi Republica Moldova. In: The closing conference of the Intelligent valorisation of agro-food industrial wastes project, 2SOFT/1.2/83, 24 februarie 2022, Chişinău. Chişinău: 2022, p. 11. ISBN 978-9975-3464-6-7.
7. Apostol, Maria, **Băetu, Mihai-Marius**, Patraş, Antoanela. The influences of grape marc extracts on the rooting of cuttings in some flower species. In: The closing conference of the Intelligent valorisation of agro-food industrial wastes project, 2SOFT/1.2/83, 24 februarie 2022, Chişinău. Chişinău: 2022, p. 24. ISBN 978-9975-3464-6-7.

**Candidat,**

Asist. univ. Dr. Băetu Mihai - Marius

