

SCIENTIFIC PAPERS

Selective list

In magazines/volumes rated/indexed ISI

1. Arsenoaia, V. N.; Vladut, V.; **Tenu, I.**; et al., 2019, *Mathematical modeling and numerical simulation of the drying process of seeds in a pilot plant*, INMATEH-AGRICULTURAL ENGINEERING Vol. 57 Issue 1 pag. 55-62, Published JAN-APR 2019;
2. **Țenu I.**, Coorduneanu O.R., Cârlescu P., Roșca R., 2018, *Design and construction of a fertilizer spreader for glass houses and greenhouses*, Proceedings of the th 46 International Symposium, Actual Tasks on Agricultural Engineering, Zagreb, volume 46, pag. 157-168, ISSN 1848-4425;
3. M. Cârlescu, **Țenu I.**, R. Roșca, A. T. Muscalu, N. V. Vlăduț, 2018, *CFD simulation of an innovative vertical dryer for agricultural seeds drying*, Proceedings of the th 46 International Symposium, Actual Tasks on Agricultural Engineering, Zagreb, volume 46, pag. 407-418, ISSN 1848-4425;
4. Cârlescu P. M., Arsenoaia V. N., **Țenu I.**, Muscalu A. T., Bârsan M. S., 2018, *Researches of mass and heat transfer of an innovative vertical dryer*, Proceedings of the th 46 International Symposium, Actual Tasks on Agricultural Engineering, Zagreb, volume 46, pag. 419-428, ISSN 1848-4425;
5. Roșca R., Cârlescu P., **Țenu I.**, 2017, *Comparative analysis of some tire deformation models used for the prediction of traction characteristics*, INMATEH —Agricultural Engineering, Vol. 53, No. 3 / 2017, 151-158;
6. Diaconu, A., **Tenu, I.**, Rosca, R., Carlescu, P., 2017. *Researches regarding the reduction of pesticide soil pollution in vineyards*. Process Saf. Environ. 108, 135–143, <http://dx.doi.org/10.1016/j.psep.2016.09.016>;
7. P.M. Cârlescu, V Arsenoaia, R Roșca, **I Țenu**, 2017, *CFD simulation of heat and mass transfer during apricots drying*, LWT-Food Science and Technology, <https://doi.org/10.1016/j.lwt.2017.03.015>;
8. Rosca R, Carlescu P., **Tenu I.**, 2014, A Semi-empirical traction prediction model for an agricultural tyre, based on the super ellipse shape of the contact surface, SOIL & TILLAGE RESEARCH, Volume: 141, Pag. 10-18, DOI: 10.1016/j.still.2014.03.007, ISSN 167-1987;
9. **Țenu I.**, Jitâreanu G., Muraru-Ionel Cornelia, Cojocariu P., Muraru V. M., 2009, *The impact of mechanization technologies on soil*, Environmental Engineering and Management Journal, September/October, Vol. 8, No.5, ISSN 1582-9596;
10. Muraru V. M., Muraru-Ionel Cornelia, Pirnă I., **Tenu I.**, Cardei P., 2009, *Agricultural soil mapping*, Environmental Engineering and Management Journal, September/October 2009, Vol. 8, No.5, ISSN 1582-9596;
11. **Tenu I.**, Rosca R.; Carlescu P.; Velescu I.D., 2014, *Researches for the optimization of the dehydration process for plums and apricots*, Advanced Materials Research Vol. 837 (2014) pag. 212-217, doi:10.4028/www.scientific.net/AMR.837.212, ISSN 1022-668;
12. Rosca R.; Carlescu P.; **Tenu I.**, 2014, *Assessment of a traction model for agricultural tires based on a variable shear area model and experimental data*, Advanced Materials Research volume: 837 pag. 458-463, doi: 10.4028/www.scientific.net/AMR.837.458, ISSN 1022-668;
13. Carlescu P.; Tenu I.; Baetu M.; Rosca R., 2014, *CFD study on must of grapes separation in a hydrocyclone*, Advanced Materials Research volume: 837 pag. 645-650, doi: 10.4028/www.scientific.net/AMR.837.645, ISSN 1022-668;
14. Rosca R.; Carlescu P.; **Tenu I.**, 2014, *Evaluation of vacuum regulation in a mechanical milking machine by the means of a vfd controlled vacuum pump*, Actual Tasks on Agricultural Engineering-Zagreb, Volume: 42, pag. 219-229, ISSN 1848-4425;
15. Velescu I; Tenu I.; Murariu O. C, 2014, Influence of air drying temperature on kinetics, physical properties and ascorbic acid content of fruits, JOURNAL OF BIOTECHNOLOGY Volume: 185 Supplement: S Pages: S84-S84 Published;
16. Velescu I; Dobre V., **Tenu I.**, 2013, Studies regard thin layer drying of onion slices, CURRENT OPINION IN BIOTECHNOLOGY, Volume: 24, Pages: S81-S82, Suppl. 1, DOI: 10.1016/j.copbio.2013.05.236;
17. Dobre V.; **Tenu I.**, Velescu I., 2013, Research regarding testing of barley in order to obtain malt, CURRENT OPINION IN BIOTECHNOLOGY, Volume: 24, Pages: S96-S98, Suppl. 1, DOI:

10.1016/j.copbio.2013.05.288;

18. Tenu I., Cojocariu P., Rosca R., Carlescu P., 2012, *Mobile laboratory for the evaluation of the power indices of the agricultural units*, Actual Tasks on Agricultural Engineering-Zagreb, Volume: 40, pag. 213-221, ISSN 1333-2651;

19. Tenu I., Cojocariu P., Rosca R., Carlescu P., 2012, *Laboratory test rig for studying the interaction between the active parts of the agricultural units and soil*, Actual Tasks on Agricultural Engineering-Zagreb, Volume: 40, pag. 223-230, ISSN 1333-2651;

20. Rosca R., Carlescu P., Tenu I., Chirila C., 2012, *Effect of the liner tension over some characteristics of the process of mechanical milking*, Actual Tasks on Agricultural Engineering-Zagreb, Volume: 40, pag. 385-394, ISSN 1333-2651;

21. Rosca R., Tenu I., Carlescu P., Cazacu D., Vlahidis V., 2010, *Evaluation of the super ellipse model for the tyre-ground contact patch*, Actual Tasks on Agricultural Engineering-Zagreb, Volume: 38, pag. 85-92, ISSN 1333-2651;

22. Muraru V.M., Cardei P., Muraru-Ionel C., Tenu I., Pirna I., 2010, *Soil properties mapping using spectrophotometry*, Actual Tasks on Agricultural Engineering-Zagreb, Volume: 38, pag. 151-161, ISSN 1333-2651;

23. Tenu I., Cojocariu P., Rosca R., Carlescu P., 2008, *The achievement and experimentation of one complex unit for total tillage and sowing of the soil for straw crops*, Actual Tasks on Agricultural Engineering-Zagreb, volume: 36, pag. 127-134, ISSN 1333-2651;

24. Rosca R., Tenu I., Carlescu P., Rakosi E., Manolache G., 2008, *Tire traction models - Comparative analysis and validation*, Actual Tasks on Agricultural Engineering-Zagreb, volume- 36, pag. 93-104, ISSN 1333-2651;

25. Tenu I., 2002, *The researches concerning the experimentation of the ploughs reversibles in the aggregate by the tractors of 65-110 HP*, Actual Tasks on Agricultural Engineering-Zagreb, volume: 30, pag. 217-222, ISSN 1333-2651.

In magazines reviewed in BDI, over the past 10 years:

1. Cârlescu P. M., Țenu I., Roșca R., Muscalu A. T., Sorica C. M., Bârsan M. S., 2017, *Researches on designing and functioning an innovative model of vertical heat recovery drying for agricultural seeds*, Scientific papers – vol. 60(1)/2017, Agronomy series, 11-14;

2. P. M. Cârlescu, V. N. Arsenoaia, I. Țenu, A. T. Muscalu, C. M. Sorica, M. G. Matache, 2017, *Research on heat transfer during the drying process of agricultural seeds*, Scientific papers – vol. 60(1)/2017, Agronomy series, 15-20;

3. G. Nuțu, P. M. Cârlescu, I. Țenu, V. Cârlescu, 2017, *Experimental determination of the wear resistance of devices used for cutting the stalks of agricultural plants*, Scientific papers – vol. 60(2)/2017, Agronomy series, 73-76;

4. O. Corduneanu, I. Țenu, P. Cârlescu, V.N. Arsenoaia, 2017, *Researches regarding the design and achievement of a fertilization machine in aggregate with a motocolture for greenhouses and solariums*, Scientific papers – vol. 60(2)/2017, Agronomy series, 227-230;

5. Roșca R., Țenu I., Carlescu P., 2017, *Assessment of the milking machine parameters using a computer driven test system* Journal of Agricultural Informatics (ISSN 2061-862X) 8 (1), 32-44;

6. A. Diaconu, I. Țenu, P. Cârlescu, V. Vlahidis, 2016, *The dispersion uniformity of a machinery for combating diseases and pests in vineyards and orchards, equipped with nozzles with/without air absorption*, Scientific papers –vol. 59 (2)/2016, Agronomy series, pag. 163-168;

7. C.V. Zăpodeanu, I. Țenu, P. Cârlescu, V.N. Arsenoaia, 2016, *Researches regarding the optimization of the operating process of wheat debranning for grinding*, Scientific papers –vol. 59 (2)/2016, Agronomy series, pag.159-162;

8. V. N. Arsenoaia, I. Țenu, P. Cârlescu, R. Roșca, C. Zăpodeanu, 2016, *Studies regarding the influence of the drying process technological parameters on the corn seed quality*, Scientific papers –vol. 59 (2)/2016, Agronomy series, pag.373-376;

9. O. Corduneanu, I. Țenu, P. Cârlescu, Gh. Șovăială, 2016, *Researches concerning the influence of pressure on the drip rate for different drip watering tape models*, Scientific papers –vol. 59 (2)/2016, Agronomy series, pag.385-388;

10. I. Țenu, R. Rosca, P. Cârlescu, C. L. Butnaru, 2015, *Impact of tillage operations for autumn wheat crop set up over some soil properties*, Buletinul Institutului Politehnic din Iași, Tomul LXI (LXV)

Fasc. 3-4, Secția Chimie și inginerie chimică, ISSN 0254-7104, pag. 75-84;

11. G. Sovăială, S. Anghel, **I. Tenu**, N. Tănăsescu, 2015, *Research on the development of innovative fertigation equipment*, Cylinder 2015/Monografia, Instytut Techniki Górniczej KOMAG, p. 163-172;
12. A. Diaconu, **I. Tenu**, P. Cârlescu, R. Roșca, 2015, *Researches Regarding the Spraying Uniformity of the TARAL 200 PITON TURBO machine*, Bulletin USAMV Cluj-Napoca series Agriculture 72(1)/2015 ISSN 1843-5246; p.79-85, DOI 10.15835/buasvmcn-agr;
13. V.N. Arsenoiaia, **I. Tenu**, R. Roșca, P. Cârlescu, C. Zăpodeanu, 2015, *Research Regarding the Influence of Drying Agent's Speed and Temperature on the Work Process of Corn Dehydration*, Buletin USAMV Cluj-Napoca, series Agriculture 72(2)/2015 ISSN 1843-5246; p.321-327;
14. Gh Șovăială, S. Anghel, G. Matache, **I. Tenu**, N. Tănăsescu, 2015, *Research concerning the development of fertigation innovative equipment*, INMATEH, INMA Bucuresti;
15. V. N. Arsenoiaia, **I. Tenu**, R. Roșca, P. Cârlescu, C. Zăpodeanu, 2015, *Studies regarding energy consumption variation and drying time for corn seed in laboratory conditions*, Scientific papers – vol. 58 (1) 2015, Agronomy series p. 33-36;
16. Diaconu, **I. Tenu**, P. Cârlescu, D. Cazacu, 2015, *Researches regarding the effect of air flow rate for the recycling of pesticides administered with spraying machine Taral 200 Piton Turbo-Er*, Scientific papers – vol. 58 (1) 2015, Agronomy series p. 151-155;
17. C. V. Zăpodeanu, **I. Tenu**, P. Cârlescu, V. N. Arsenoiaia, 2015, *The influence of constructive and functional parametres of the brushing machine on cleaning operation of wheat seeds for grinding*, Scientific papers – vol. 58 (1) 2015, Agronomy series p. 189-194;
18. P. Cârlescu, **I. Tenu**, Corduneanu O. R., Gh Șovăială, S. Anghel, G. Matache, N. Tănăsescu, 2015, *CFD Study on the distribution of fertilizer in the fertigation plant*, Hidraulica, no.4, ISSN 1453-7303;
19. **Tenu I.**, Rittner T., Rosca R., Cozma D., 2014, *Researches Regarding the Reliability of the Spraying Nozzles Used for Vineyard and Orchard Sprayers*, Applied Mechanics and Materials, Vol. 659 pag. 545-550, doi: 10.4028/www.scientific.net/AMM.659.545, ISSN: 1662-7482;
20. **Tenu I.**, Diaconu A., Rosca R., Rittner T, 2014, *Researches Regarding the Improvement of the Design for Vineyard Spraying Equipment*, Applied Mechanics and Materials Vol. 659 (2014) pag. 539-544, doi:10.4028/www.scientific.net/AMM.659.539, ISSN: 1662-7482;
21. Cozma D., **Tenu I.**, Zapodeanu C., 2014, *Influence of Hydrothermal Treatment on Wheat for Milling*, Applied Mechanics and Materials Vol. 659 pag. 511-514, doi: 10.4028/www.scientific.net/AMM.659.511, ISSN: 1662-7482;
22. A. Diaconu, **I. Tenu**, P. Cârlescu, D. Cazacu, 2014, *Research regarding the influence of the fan speed over the operating process of a machine for pest and disease control in vineyards, with sollution recovery*, Scientific papers – vol. 57 (2) 2014, USAMV din Iasi, Agronomy series, pag. 92-98;
23. A. Diaconu, **I. Tenu**, 2014, *Researches regarding the flow rate uniformity of the taral 200 piton turbo spraying machine for disease and pest control in vineyards and intensive orchards*, Scientific papers – vol. 57 (2) 2014, USAMV din Iasi, Agronomy series, pag. 99-102;
24. P. Carlescu, R. Rosca, **I. Tenu**, C. Chirila, 2014, *Assessment of two types of milking teatcups by the means of a computer*, MITTEILUNGEN KLOSTERNEUBURG, Volume 64; Issue 2, Section 2, ISSN: 0007-5922;
25. **Tenu I.**, Diaconu Andreea, Roșca R., 2013, *Equipments for reducing soil pollution with pesticides for pest and disease control in vineyards*, Scientific papers – vol. 56 (1) 2013, Agronomy series pag. 103-106, ISSN 1454-7414;
26. Veleşcu I., **Tenu I.**, Cârlescu P., Dobre V., 2013, *Experimental study of drying behaviour of potato*, Scientific papers – vol. 56 (1) 2013, Agronomy series pag. 107-112, ISSN 1454-7414;
27. Dobre V., **Tenu I.**, Cârlescu P., Veleşcu I., 2013, *Research on the influence of air speed on the kinetics green malt drying*, Scientific papers – vol. 56 (1) 2013, Agronomy series, pag. 113-119, ISSN 1454-7414;
28. I. Veleşcu, **I. Tenu**, P. Cârlescu, V. Dobre, 2013 – *Convective Air Drying Characteristics For Thin Layer Carrots*, Bulletin UASVM Food Science and Technology, vol 70, no.2, pg. 129-136, ISSN 2344-2344.
29. **Tenu I.**, Roșca R., Cârlescu P., Vlahidis V., 2012, *Laboratory Stand for Traffic Impact Study of Agriculture and Technology Works on Physical Properties of Soil*, Buletinul Institutului Politehnic din Iași Tomul LVIII (LXII), Fasc. 4, Secția Construcții de mașini, pag.255-262, ISSN 1011-2855;
30. **Tenu I.**, Rosca R., Cârlescu P., 2012, *Researches regarding the designing, achievement and*

testing of a laboratory test rig for drying agricultural and food products, *Lucrări științifice*, USAMV din Iasi, vol. 55, no. 2, Horticulture series, pag 491-496, ISSN 1454-7376;

31. I. Țenu, Ionuț Veleşcu, Vasile Dobre, 2012 – *Kinetics of convective drying and quality of pears cultivars*, Conference Lucas, Abote. *Buletin USAMV Agriculture*, 69(2), Print ISSN 1843-5246; Electronic ISSN 1843-5386;

32. Țenu I., Băetu M.M., Cârlescu P., Pahoni C., Barcan (Băetu) Alina – Loredana, 2012 - *Research on SLV02 hydrocyclone experimentation for partial wine separation*. *Lucrări științifice*, Vol.55, Nr.1, Horticulture series, USAMV Iași, ISSN 1454- 7376;

33. Țenu I., Băetu M.M., Cârlescu P., Pahoni C., Barcan (Băetu) Alina – Loredana, 2012 - *Researches on optimizing the process of pressing for the vertical bellows hydropress*. *Lucrări științifice*, Vol.55, Nr.1, Horticulture series, USAMV Iași, ISSN 1454-7376;

34. Pahoni C., Țenu I., Băetu M. M., 2012 - *Research on the determination of the harvesters working indices for wheat and barley crops*. *Lucrări științifice*, Vol.55, Nr.1, Horticulture series, USAMV Iași, ISSN 1454-7376;

35. Pahoni C., Țenu I., Băetu M. M., 2012 - *Research on the determination of working indexes of the New Holland TC 5050 combine for maize crop*. *Lucrări științifice*, Vol.55, Nr.1, Horticulture series, USAMV Iași, ISSN 1454-7376;

36. Cârlescu P., Dobre V., Țenu I., Rosca R., 2012, *Modeling on heat transfer during malt drying process*, *Buletinul Institutului Politehnic din Iași, Technical University „Gheorghe Asachi” din Iași Tomul LVIII (LXII), Fasc. 3, 2012 Secția Matematică. Mecanică teoretică. Fizică pag.106-117*

37. Voicea I., Panayotova G., Vlăduț V., Matache M., Țenu I.; 2011, *Data processing methods for electro-conductivity and soil productivity*, INMA Bucharesti, INMATEH-Agricultural Engineering, Bucharest, Romania, vol 33, no 1, pp 19-28;

38. I. Țenu, P. Cojocariu, P. Cârlescu, V. Vlahidis, 2011, *The impact of rolling stock of agricultural vehicles on the soil*, *Cercetări Agronomice în Moldova*, Vol. XLIV , No. 1 (145) pag. 5-16;

39. I.Țenu, P.Cojocariu, R Roșca., P.Cârlescu, C Bercovici, 2011, *Research concerning design and testing of a laboratory rig for the study of the agricultural units active parts-soil interaction*, *Scientific papers USAMV Iasi, Seria Horticultură Anul LIV (54) - no.2, pag. 399-404*, ISSN 1454-7376;

40. I.Țenu, P.Cojocariu, C.Bercovici, R.Roșca, P Cârlescu, 2011, *Research concerning the design and testing of a laboratory rig for the study of the wheel-soil interaction*, *Scientific papers USAMV Iasi, Seria Horticultură Anul LIV (54) - no.1, 557-562*, ISSN 1454-7376;

41. I. Țenu, P. Cojocariu, P. Cârlescu, R. Roșca, C.L. Butnaru, 2011, *Impact of agricultures of traffic over physical of mechanical properties of soil in over crop yield*, *Scientific papers USAMV Iasi, Agronomy series, vol. 54 – no.1, 180 - 183* ISSN1454 – 7414;

42. I. Țenu, P. Cojocariu, P. Cârlescu, R. Roșca, D. Cazacu, 2011, *Researches regarding the aggressiveness of the active parts over the soil*, *Scientific papers USAMV Iasi, Agronomy series, vol. 54 – no.1, 184-187* ISSN1454 – 7414;

43. Honciuc C., Țenu I., 2011, *Experiments related to preservative technologies of soil works mechanization for maize grain, effectuated at Ezăreni farm of the Agronomical University from Iași*, *Lucrări științifice USAMV Iasi, Seria Horticultură Anul LIV (54) - no. 1, pag. 231-236*, ISSN 1454-7376;

44. Honciuc C., Țenu I., 2011, *Researches regarding the mechanization preservative technologies related to the soil works of the autumn corn, made within the Rediu company of the Agronomical University from Iași*, *Lucrări științifice USAMV Iasi, Seria Horticultură Anul LIV (54) - no. 1, pag. 237-242*, ISSN 1454-7376;

45. I. Țenu, Carmen Brăcăcescu, S. Popescu, 2011, *Experimental researches on the influence of functional parameters of gravity separator on the quality indicators of separation process with application on cleaning of wheat designed to milling*, *Lucrări științifice - USAMV Iasi, Agronomy series, vol. 54, Nr. 2, 206-210*, ISSN1454 – 7414;

46. I. Țenu, P. Cojocariu, P. Cârlescu, V. Vlahidis, 2010, *The means of transport rolling system components impact on soil*, *Bulet. Inst. Polit. din Iași, Tomul LVI (LX), Fasc. 4, Secția Construcții de mașini 471-476*, ISSN 1011-2855;

47. I.Țenu, Cojocariu P., Cârlescu P., Roșca R., Cazacu D., Vlahidis V. 2010, *The impact of U-650 and Valtra T-190 rolling system on soil*, *Scientific papers , USAMV Iasi. vol 53, no.2, Horticulture series, Iași 543-548*, ISSN 1454-7376;

48. Roșca R., Cazacu D., Țenu I., Cârlescu P., 2010, *Experimental validation of the super ellipse*

tyre-ground contact patch, *Lucrări științifice, USAMV Iasi Horticulture series*, vol 53, no.1, Iași 515-520, ISSN 1454-7376;

49. I. Țenu, G. Jitoreanu, P. Cojocariu, N. Bria, C. Chirilă, M. C. Honciuc, 2009, *Research on the establishment of conservative technologies for soil mechanization in maize crop, for soil conditions specific to Romania's N-E part*, *Cercetări Agronomice în Moldova*, Vol. XLII, No. 3 (139), 5-16 ISSN 0379-5837;

50. G. Jitoreanu, I. Țenu, P. Cojocariu, I. Cojocar, V. Vâlcu, D. Cazacu, 2009, *Research on the establishment of conservative technologies for the mechanization of soil works in wheat crops, for soil conditions specific to the N-E area of Romania*, *Cercetări Agronomice în Moldova*, Vol. XLI, No. 2 (138), 5-16 ISSN 0379-5837;

51. P. Cârlescu, I. Țenu, R. Roșca, P. Cojocariu, 2009, *CFD simulation of soil-tool interaction*, *Lucrari stiintifice, seria Horticultura*, vol. X, 945-951, ISSN 1454-7376;

R. Roșca, **I. Țenu**, P. Cârlescu, B. Avarvarei, 2009, *Evaluation of the Komandi type shear area equation using a tyre traction model and experimental data*, *Lucrari stiintifice, seria Horticultura*, vol. X, 951-957, ISSN 1454-7376.