

University of Agricultural Sciences and Veterinary Medicine of Iași

Faculty of Agriculture

Department: Pedotehnics

Competition for the **Associate Professor** position , poz. I/10

Topics covered: *Unit operation of food engineering, Processes and unit operation of food engineering, Equipments for food industry*

Field of the position: Engineering in vegetal and animal resources

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Representative papers

1. Bârsănescu P., **Cârlescu P.**, **2009**, *Correction of errors introduced by hole eccentricity in residual stress measurement by the hole-drilling strain-gage method*, MEASUREMENT, Volume: 43, No. 3, Pag. 474-477, DOI:10.1016/j.measurement.2008.09.002, ISSN 0263-2241, **FI/2009-0,761**.
2. Bârsănescu P., **Cârlescu P.**, Goanță V., Dumitrașcu I., **2016**, *Finite Elements Analysis of CFRP Specimens with Included Cracks*, MATERIALE PLASTICE, Volume: 53, Issue: 2, Pag. 229-234, DOI: 10.1016/j.still.2014.03.007, ISSN 0025-5289, **FI/2015-0,903**.
3. Roșca R, **Cârlescu P.**, Rakosi E., Manolache G., **2009**, *Fueling and D.I. agricultural diesel engine with waste oil biodiesel: Effects over injection, combustion and engine characteristics*, ENERGY CONVERSION AND MANAGEMENT, Volume: 50, No. 9, Pag. 2158-2166, DOI: 10.1016/j.enconman.2009.04.026, ISSN 0196-8904, **FI/2009-1,944**.
4. Diaconu A, Țenu I., Roșca R, **Cârlescu P.**, **2016**, *Researches regarding the reduction of pesticidesoil pollution in vineyards*, PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, Volume:50, No.9, Pag.2158-2166, DOI: <http://dx.doi.org/10.1016/j.psep.2016.09.016>, ISSN 0957-5820, **FI/2015-2.078**.
5. Roșca R, **Cârlescu 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, **FI/2014-2.622**.
6. Opitz R., Goanță V., **Cârlescu P.**, Bârsănescu P., Țăranu N., Banu O., **2012**, *Use of Finite Elements Analysis for a Weigh-in-Motion Sensor Design*. Sensors, SENSORS, No.12, (6), Pag. 6978-6994, DOI: 10.3390/s120606978, ISSN 1424-8220, **FI/2012-1,953**.
7. **Cârlescu 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.
8. Tenu I., Cojocariu P., Rosca R., **Cârlescu 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.
9. Tenu I., Cojocariu P., Roșca R., **Cârlescu 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.
10. Tenu I., Cojocariu P., Rosca R., **Cârlescu 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.

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