

Expertise & Experience

NITU MIHAELA, 37 years old, mechanical engineer

Position in project: PhD student

Current position held: Researcher of Testing Department, INMA Bucharest

Professional experience in project: From 2005 to the present I work within INMA Bucharest Testing in the Department, where I participated in testing equipment for the application of phytosanitary treatments in the Laboratory for Tasting DITRMA (accredited RENAR), being the Responsible quality assurance of this laboratory..

List of most important five achievements in the field project (publications in scientific journals):

1. Roșu (Nițu) M., Matache M., Vlăduț V., Căsândroiu T., Bungescu S. - Influence of the jet's angle size on the spraying process, Proceedings of the 43 International Symposium on Agricultural Engineering "Actual Tasks on Agricultural Engineering", Opatija - Croația;
2. Nițu M., Vlăduț V., Matache M., Duțu M. - Influence of the flow angle function by working pressure, 2015, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD, Posada-Vidraru (Argeș), pag. 319-324, ISSN 2457-3302;
3. Nițu (Roșu) M., Vlăduț V., Matache M., Vlad C. - Mathematical model characterizing the angle of spraying jet of sprayers designed to field crops, Revista INMATEH – AGRICULTURAL ENGINEERING, vol. 46, pag. 59-68, nr. 2/2015, Bucharest, Romania;
4. Nițu (Roșu) M., Căsândroiu T., Matache M. Cujbescu D., Marin E., Vlăduț V., Matei Gh., Boruz S. - Aspects on optimizing the qualitative indices of the work, 2015, ANNALS OF THE UNIVERSITY OF CRAIOVA - AGRICULTURE, MONTANOLOGY, CADASTRE, Series, Vol. 45, No. 2 / 2015, ISSN 1841-8317, pag. 143-150, Craiova - Romania.

List of research grants, as team member:

1. Programme NUCLEU/ PN 16 - 24 02 03 „ *Technology of post-harvest treatment of horticultural products intended for consumption fresh, using ozone in aqueous solution*”.
2. Programme ADER 7.3.6. „*Mechanization technologies and technical equipment adequate to harvesting, transporting and effective conservation of fodder plants*”.
3. Programme NUCLEU/ PN 09 -15 03 05 „ *Innovative technology conditioning horticultural products for fresh consumption*”.
4. Programme ADER–16.2.1 „ *Research regarding the determination of thermal properties, physical, of coefficients of heat and mass transfer of horticultural products for optimisation freezing technologies applicable on cold chains*”.