

Published scientific papers

A. ISI-quoted magazines

1. **Bucur D.**, Jitareanu G., Ailincăi C., Tsadilas C., Ailincăi Despina, Mercus A., **2007** - *Influence of soil erosion on water, soil, humus and nutrient losses in different crop systems in the Moldavian Plateau, Romania*, Journal of Food, Agriculture & Environment, Vol. 5 (2), 261-264, ISSN 1459-0255
2. Ailincăi C., Jitareanu G., **Bucur D.**, Ailincăi Despina, **2007** - *Influence of sewage sludge on maize yield and quality and soil chemical characteristics*, Journal of Food, Agriculture & Environment, Vol. 5 (1), 310-313, ISSN 1459-0255
3. Jitareanu G., Ailincăi C., **Bucur D.**, **2007** - *Soil fertility management in North-East Romania*, Journal of Food, Agriculture & Environment, Vol. 5 (3&4), 349-353, ISSN 1459-0255
4. **Bucur D.**, Savu P., **2006** - *Considerations for the design of intercepting drainage for collecting water from seep areas*, Journal of Irrigation and Drainage Engineering, Reston, SUA, vol. 132, Issue 6, 597-599, ISSN 0733-9437

B. Periodicals found in international data base

1. **Bucur D.**, Ailincăi C., **2006** - *Prevention of soil erosion on irrigated sloping land from Moldavia Plain*, Lucr. st., Seria Agronomie, vol. 49, U.S.A.M.V. Iasi, 375 - 383, ISSN 1454-7414 .
2. **Bucur D.**, Ailincăi C., Ailincăi Despina, Mercus Ad., **2006** - *Soil erosion in different crops grown in the North-East Romania*, Lucr. st., Seria Agronomie, vol. 49, U.S.A.M.V. Iasi, 367 - 374, ISSN 1454-7414 .
3. **Bucur D.**, Ailincăi C., Ailincăi Despina, Raileanu Roxana, Cimpeanu S., **2005** - *Effects of Long-Term Fertilization and Irrigation on Wheat and Maize Yield Cultivated on Slope Lands in the North-Eastern Romania*, Buletinul U.S.A.M.V. Cluj-Napoca, vol. 61, Cluj-Napoca, 294 - 297, ISSN 1454-2382 .
4. Moca V., **Bucur D.**, Radu O., Hutănu Cr., Buzdugan Catalina, Dughila R., **2007** - *Present aspects concerning the behavior in exploitation of subsoil draining and drainage, associated to modeling in ridge strips, in the Baia experimental field - Moldova hydrological basin*, Lucr. □t. Seria Agronomie, nr.
5. Ailincăi C., **Bucur D.**, Ailincăi Despina, Zbanț Maria, Mercus Ad., **2006** - *Influence of long-term fertilization and irrigation on wheat and maize yield cultivated on slope lands in the Moldova Plain*, Lucr. st, Seria Agronomie, vol. 49, U.A.M.V. Iasi, 384-393, ISSN 1454-7414 .
6. Popescu Ch., **Bucur D.**, **2006** - *Biomass and biological fuels*, Cercetări agronomice în Moldova, vol. 2, Iasi, 81-89, ISSN 0379-5837 .
7. Popescu Ch., **Bucur D.**, Maksimovic Livija, **2007** - *Diminution in environmental pollution by revaluating wastes and crop residues*, Cercetări agronomice în Moldova, vol. 1 (129), Iasi, 71-78, ISSN 0379-5837 .
8. Ailincăi C., Jităreanu G., **Bucur D.**, Ailincăi Despina, Zbanț Maria, **2009** - *Evaluation of the long-term effect of crop rotation on water runoff, soil and nutrient losses in the Moldavian Plateau*, Cercetari agronomice in Moldova, vol. XLII, nr. 1(137), Iasi, 19-30, ISSN 0379-5837 .
9. Ailincăi C., Jitareanu G., **Bucur D.**, Ailincăi Despina, Mercus A., Balan A., Topa D., **2007** - *Investigation on the influence of crop rotation and fertilization on wheat yield, soil erosion and fertility in Moldova Plain*, 102 - 112, Lucrări stiințifice, vol. 50, seria Agronomie, USAMV Iasi.
10. Ailincăi C., Tsadilas C.D., Sgouras I.D., **Bucur D.**, Ailincăi Despina, Balan Adriana, **2008** - *Influence of different organic resources on crop yield and soil fertility in the Moldavian Plateau*, Cerc. Agron. in Moldova, vol. XLI, no. 2 (134), Iasi, 23-34, ISSN 0379-5837 .
11. Ailincăi C., Jităreanu G., **Bucur D.**, Ailincăi Despina, Zbanț Maria, Mercus Ad., Cara M., **2006** - *Influence of sewage sludge form Iasi Water Treatment Station on soybean yield quantity and quality and soil chemical characteristics*, Cercetări agronomice în Moldova, vol. 2, Iasi, 13-22, ISSN 0379-5837 .
12. Ailincăi C., Jitareanu G., **Bucur D.**, Ailincăi Despina, Zbanț, Maria, Răus, L., Mercus, Ad., **2006** - *Impact of treatments with fermented sewage sludge on soil fertility and quality of crop yield in the Moldavian Plain*, Lucr. st, Seria Agronomie, vol. 49, U.A.M.V. Iasi, 329-337, ISSN 1454-7414 .

13. Ailincăi Despina, Ailincăi C., **Bucur D.**, Zbanț Maria, Răus L., Mercus Ad., **2006** - *Investigations on the influence of long-term fertilization on maize yield and soil fertility in the Moldavian Plain*, Lucr. st., Seria Agronomie, vol. 49, 338-345, U.S.A.M.V. Iasi, ISSN 1454-7414 .
14. Jitareanu G., Ailincăi C., **Bucur D.**, **2006** - *Influence of tillage systems on soil physical and chemical characteristics and yield in soybean and maize grown in the Moldavian Plain (North-Eastern Romania)*, Advances in Geocology, 38, CATENA Verlag, Reiskirchen, Germany, 370-379, ISBN 3-923381-52-2, US ISBN 1-59326-246-9.
15. Jitareanu G., Ailincăi C., Ailincăi Despina, **Bucur D.**, Mercus Ad., **2006** - *Investigation on the evolution of main chemical and biological characteristics of soil as influenced by technological factors and soil erosion*, Lucr. st., Seria Agronomie, vol. 49, 319-328, U.S.A.M.V. Iasi, ISSN 1454-7414 .
16. Paraschiv G., Maican E., Paraschiv I., **Bucur D.**, **2006** - *Study of stability in work for tillage aggregates*, Cercetari agronomice in Moldova, Iasi, 28-36, ISSN 0379-8364 .
17. Ailincăi C., Tsadilas C., Sgouras J., Ailincăi Despina, **Bucur D.**, Balan Adriana, Topa D., **2007** - *The change of physical and chemical characteristics in cambic chernozem as influenced by soil erosion, in the Moldavian Plain*, Cercetări agronomice în Moldova, vol. 2 (134), Iasi, 23-34, ISSN 0379-5837.
18. Jităreanu G., Ailincăi C., **Bucur D.**, Răus L., Ailincăi Despina, **2009** - *Cropping systems and fertilization effects on erosion and soil quality in Moldavian Plain*, Lucrări științifice, vol. 52, seria Agronomie, USAMV Iasi, (sub tipar), ISSN 1454-7414 .
19. Nicolescu C., Anghel S., **Bucur D.**, Sovăială Gh., **2009** - *Technical solution for irrigation pipes gasket*, vol. 52, seria Agron., USAMV Iasi, (sub tipar), ISSN 1454-7414 .
20. Nicolescu C., Sovăială Gh., **Bucur D.**, Matache Gabriela, **2009** - *Flowmeter for watered furrows*, (sub tipar), Lucr. st., vol. 52, seria Agronomie, USAMV Iasi .
21. Sovăială Gh., Nicolescu C., **Bucur D.**, **2009** - *Method and equipment to protect sloping land against soil erosion*, Lucrări științifice, vol. 52, seria Agronomie, USAMV Iasi, ISSN 1454-7414 .
22. Ailincăi C., Jităreanu G., **Bucur D.**, Ailincăi Despina, **2008** - *Research on the evolution of the main soil chemical features as influenced by cropping system and soil erosion*, Lucrări științifice, vol. 51, seria Agronomie, USAMV Iasi, 118 - 126, ISSN 1454-7414 .
23. Ailincăi C., Jitareanu G., **Bucur D.**, Raus L., Ailincăi Despina, Zbanț Maria, **2009** - *The Impact of Long-Term Fertilization and Irrigation on Wheat and Maize Yield on Slope Lands in the Moldavian Plain*, Cercetari agronomice in Moldova, vol. XLII, nr. 2 (138), ISSN 0379-5837.

C. Volumes of international conferences

1. **Bucur D.**, **2005** - *Considering on the crops irrigation on the sloping lands in Moldova Plain*, 40th Croatian Symposium on Agriculture, Faculty of Agriculture, University of J. J. Strossmayer in Osijek, **Croatia**. 288-c - 288-d, ISBN 953-6331-31-4.
2. **Bucur D.**, Ailincăi C., Jitareanu G., Ailincăi Despina, Mercus A., Topa D., **2009** - *Efects of Cropping Systems on Runoff, Erosion and Nutrient Losses in the Moldavian Plateau, Romania*, International Conference on Ecohidrology and Climate Change, Published by EcoHCC'09 Polytechnic Institute of Tomar, **Portugal**, ISBN 978-972-9473-45-6, p 117
3. **Bucur D.**, Jitareanu G., Ailincăi C., Filipov F., **2006** - *Erosion control - a basic condition for a competitive agriculture and environment protection in North-Eastern Romania*, International Soil Tillage Research Organisation 17 th Triennial Conference, Kiel, **Germany**. 970-975, ISBN ISBN 3-9811134-0-3.
4. **Bucur D.**, Bălăceanu C., Bălăceanu Cornelia, Răileanu Roxana, **2005** - *Crops irrigation in Eastern Romania - a basic condition for a competitive agriculture*, 40th Croatian Symp. on Agriculture, University of J. J. Strossmayer in Osijek, **Croatia**. 288-e - 288-f, ISBN 953-6331-31-4.
5. **Bucur D.**, Jitareanu G., Vintu V., Ailincăi C., **2005** - *Study on ecological and economic implications of the capitalization of sloping irrigated lands in the Moldavian Plain (North-Eastern Romania)*, ISTRO International Conference, Mendel University of Agriculture and Forestry Brno, 39 - 46, ISBN 80-86908-01-1, **Czech Republic**.

6. **Bucur D.**, Balaceanu C., Balaceanu Cornelia, Raileanu Roxana, **2005** - *Study on the risk of agricultural drought in Moldavia (Romania)*, Agricultural University Plovdiv, vol. 50, **Bulgaria**, 385 - 390, ISBN 954-517-002-6.
7. Ailincăi C., Jitareanu G., **Bucur D.**, Ailincăi Despina, Raus L., Topa D., Cara M., **2009** - *Effects of Soil Conservation Works on the Production and Fertility of Eroded Soil from the Moldavian Plateau, Romania*, XXXIII CIOSTA CIGR V Conference. Technology and Management to Ensure Sustainable Agric., vol. 3, Reggio Calabria University, **Italia**, ISBN 978-88-7583-031-2.
8. Ailincăi C., Jitareanu G., **Bucur D.**, **2009** - *Soil erosion control on arable lands from North-East Romania*, Journal of International Scientific Publication: Ecology & Safety, vol. 3, part. 1, Publishing by Info Invest Ltd., **Bulgaria**, ISSN 1313-2563.
9. Ailincăi C., Jitareanu G., **Bucur D.**, Raus L., Ailincăi Despina, Topa D., **2009** - *Long-Term Effect of the Cropping System Management on Water Erosion and Soil Quality in North-Eastern Romania*, International Conference on Ecohydrology and Climate Change, Published by EcoHCC'09 Polytechnic Institute of Tomar, Portugal, ISBN 978-972-9473-45-6, p 116
10. Ailincăi C., Jitareanu G., **Bucur D.**, Ailincăi Despina, Raus L., Filipov F., **2009** - *Effects of Cropping Systems on Water Runoff, Soil Erosion and Nutrient Loss in the Moldavian Plateau, Romania*, In: „Advances in Studies on Desertification”, Romero Diaz A. et al. Eds., Murcia University, **Spain**, 143 - 146, ISBN 978-84-8371-888-9.
11. Ailincăi C., Jitareanu G., **Bucur D.**, Topa D., Ailincăi D., Mercus Ad., **2008** - *Effects of Cropping Systems on Runoff, Erosion and Nutrient Losses in the Moldavian Plateau, Romania*, 15th International Congress of ISCO, Budapest, Published by the Geographical Research Institute, **Hungary**, ISBN 978 963 9545 205.
12. Nicolescu C., Marin Carmen, **Bucur D.**, Popescu T.C., Nicolescu Ana-Maria, Marinescu Al., **2008** - *Aspects regarding the quality of the drainage water in the conditions present in the Southern side of Romania*, Voda 2008, 37th Conf. of the Serbian Water Pollution Control Society, **Serbia**, 253-258, ISBN 978-87-904241-5-3.
13. Jitareanu G., Ailincăi C., **Bucur D.**, Ailincăi Despina, Raus L., Filipov F., Cara M., **2009** - *The Impact of the Cropping System Management on Soil Erosion and Fertility in Northeastern Romania*, In: „Advances in Studies on Desertification”, Romero Diaz A. et al. Eds., Murcia University, **Spain**, 271 - 274, ISBN 978-84-8371-888-9.
14. Jităreanu G., Răus L., **Bucur D.**, Topa D., **2007** - *Modification of hydro-physical characteristics and soil compaction degree, under different tillage systems in winter wheat grown in the Moldavian Plateau*, International Conference: „Soil science - base for sustainable agriculture and environment protection”, Institute of Soil Science „Nikola Poushkarov” Sofia, **Bulgaria**, 87 - 90, ISBN: 978-954-749-072-7.
15. Jităreanu G., **Bucur D.**, Răus L., **2007** - *Modification of soil structure under different technological variants, in bean crops from the Moldavian Plain*, International Conference: „Soil science - base for sustainable agriculture and environment protection”, Institute of Soil Science „Nikola Poushkarov” Sofia, **Bulgaria**, 91-94, ISBN: 978-954-749-072-7.
16. Jitareanu G., **Bucur D.**, **2005** - *Study on the possibilities of water and soil conservation on arable lands in the hilly area of the Moldavian Plain (North-Eastern of Romania)*, ISTRO International Conference, Mendel University of Agriculture and Forestry Brno, 191 - 196, ISBN 80-86908-01-1, **Czech Republic**.
17. Bălăceanu Cornelia, **Bucur D.**, Bălăceanu C., Răileanu Roxana, **2005** - *The complex of hydroameliorative works necessary on the River Prut Meadow*, 40th Croatian Symposium on Agriculture, University of J. J. Strossmayer in Osijek, **Croatia**. 288-a - 288-b, ISBN 953-6331-31-4.
18. Filipov F., Jitareanu G., **Bucur D.**, **2006** - *The influence of the cultivation system on the secondary calcium carbonates accumulation*, International Soil Tillage Research Organisation 17 th Triennial Conference, Kiel, **Germany**. 810-815, ISBN 3-9811134-0-3.