

UNIVERSITATEA DIN CRAIOVA
FACULTATEA DE AGRONOMIE
DEPARTAMENTUL DE MĂSURĂTORI TERESTRE, MANAGEMENT, MECANIZARE
Şef lucrări dr.ing. Bălan Mihaela

LISTA lucrărilor ştiinţifice

A. TEZA DE DOCTORAT

Instituția organizatoare: Universitatea din Craiova, Facultatea de Agronomie
Titlul tezei de doctorat: „*Starea de calitate a unoe soluri erodate din județul Gorj*”
Conducătorul de doctorat: Prof.univ.dr. ing. Mocanu Romulus
Domeniul: Agronomie
Diplomă de Doctor: Seria H, Nr. 0000936
Ordinul Ministrului Educației, Cercetării, Tineretului și Sportului nr. 5729 din 24.11.2010

B. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI PUBLICATE

B.1 Îndrumătoare/Caiete de lucrări practice publicate în edituri recunoscută CNCSIS

1. **Bălan Mihaela.** *Îndrumător de lucrări practice și de elaborare a proiectului de combatere a eroziunii solului*, Edit. Sitech, Craiova, **2013**, p. 128, ISBN 978-606-11-3693-3.

B.2 Cărți/Capitole în carti/Manuale/Monografii publicate în edituri recunoscute CNCSIS

1. **Bălan Mihaela.** *Starea de calitate a unor soluri erodate din Judetul Gorj*. Edit. Sitech, Craiova, **2024**, p. 394, ISBN 975-606-11-8642-6.
2. **Bălan Mihaela.** *Îmbunătățiri funciare I+II - Manual Universitar pentru învățământul cu frecvență redusă*, Edit. Sitech, Craiova, **2020**, p. 191, ISBN 978-606-11-6475-2.

C. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

C.1. Articole publicate în reviste indexate ISI Web of Science cu factor de impact

1. **Balan Mihaela, Nitu OA. - 2025.** Study on land affected by erosion in Gorj county. Scientific Papers. Series A. Agronomy, Vol. LXVIII, No. 1, P 17-24, ISSN 2285-5785.
WOS:001598862000001
https://agronomyjournal.usamv.ro/pdf/2025/issue_1/Art1.pdf
<https://www.webofscience.com/wos/woscc/full-record/WOS:001598862000001>

JIF 2024: 0,6

2. Nitu OA., Jerca IO., **Balan Mihaela, (corresponding author)**, Ivan E.S. - **2025**. Water use efficiency in irrigated agriculture in Romania: optimization strategies in the context of climate change. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIV, P 705-710, Print ISSN 2285-6064. **WOS:001693457100019**
<https://landreclamationjournal.usamv.ro/pdf/2025/Art81.pdf>
<https://www.webofscience.com/wos/woscc/full-record/WOS:001693457100019>
JIF 2025: 0,6
3. Nitu OA., Jerca IO., **Balan Mihaela**. - **2024**. Drip irrigation efficiency in soybean cultivation in southeast Romania, a sustainable approach to water management. Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. XIII, P 585-591, Print ISSN 2285-6064. **WOS:001411932900035**
<https://landreclamationjournal.usamv.ro/pdf/2024/Art69.pdf>
<https://www.webofscience.com/wos/woscc/full-record/WOS:001411932900035>
JIF 2025: 0,6
4. **Balan Mihaela**, Popescu C., Nitu OA. – **2024**. Agroproductive differences between two luvisol units at the Preajba Gorj Experimental Center, Romania. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development Vol. 24, Issue 2, p 145-156, PRINT ISSN 2284-7995 E-ISSN 2285-3952. **WOS:001264962000014**
https://managementjournal.usamv.ro/pdf/vol.24_2/volume_24_2_2024.pdf
<https://www.webofscience.com/wos/woscc/full-record/WOS:001264962000014>
JIF 2024: 0,9
5. Popescu C., **Balan Mihaela (corresponding author)** - **2024**. Evaluation through natural bonitation work of the soils in the zone of confluence of Dolj and Mehedinti Counties and the estimation of crop plant productions specific to the area. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development Vol. 24, Issue 2, p 809-816, PRINT ISSN 2284-7995 E-ISSN 2285-3952. **WOS:001264962000108**
https://managementjournal.usamv.ro/pdf/vol.24_2/volume_24_2_2024.pdf
<https://www.webofscience.com/wos/woscc/full-record/WOS:001264962000108>
JIF 2024: 0,9
6. **Balan Mihaela**, Popescu C., Nitu OA. – **2024**. The evolution of soil agrochemical properties, under the influence of mineral fertilisation and water erosion, on a natural grassland located at the Preajba Experimental Centre in the Gorj County. Scientific Papers. Series A. Agronomy, Vol. LXVII, Issue 1, p 25-31, ISSN 2285-5785, E-ISSN 2285-5807. **WOS:001305979800002**
https://agronomyjournal.usamv.ro/pdf/2024/issue_1/Art2.pdf
<https://www.webofscience.com/wos/woscc/full-record/WOS:001305979800002>
JIF 2024: 0,6
7. Popescu C., **Balan Mihaela (corresponding author)**, Badescu G. – **2024**. The influence of modeling works on protosoils with specific genetic bedrock, in the characteristic relief area

of Dolj County. Scientific Papers. Series A. Agronomy, Vol. LXVII, Issue 1, p 173-181
ISSN 2285-5785.

WOS:001305979800021

https://agronomyjournal.usamv.ro/pdf/2024/issue_1/Art21.pdf

<https://www.webofscience.com/wos/woscc/full-record/WOS:001305979800021>

JIF 2024: 0,6

8. Nitu OA., Gheorghe M., Ivan ES., **Balan Mihaela (corresponding author) - 2024.** Optimizing drip irrigation yield in grain maize cultivation in Eastern Romania. Scientific Papers. Series A. Agronomy, Vol. LXVII, Issue 2, p 307-313, Print ISSN 2285-5785 E-ISSN 2285-5807.

WOS:001369756100042

https://agronomyjournal.usamv.ro/pdf/2024/issue_2/Art42.pdf

<https://www.webofscience.com/wos/woscc/full-record/WOS:001369756100042>

JIF 2024: 0,6

9. **Balan Mihaela**, Popescu C.- **2024.** Study on the soils of the Gorj County and the limiting factors of their quality, in order to improve them Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. XIII, p 283-292, Print ISSN 2285-6064.

WOS:001411932400027

<https://landreclamationjournal.usamv.ro/pdf/2024/Art32.pdf>

<https://www.webofscience.com/wos/woscc/full-record/WOS:001411932400027>

JIF 2024: 0,6

10. Popescu C., **Balan Mihaela (corresponding author)**, Cioboata M.N.- **2024.** Wather erosion of soils in the hilly area of Dolj County- assesment control and alleviation methods, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, Vol. XIII, p 348-355, Print ISSN 2285-6064.

WOS:001411932900007

<https://landreclamationjournal.usamv.ro/pdf/2024/Art40.pdf>

<https://www.webofscience.com/wos/woscc/full-record/WOS:001411932900007>

JIF 2024: 0,6

11. Panzaru RL, Medelele DM, Stefan G, **Balan Mihaela -2023.** The integration of Romania into the European Union market of sunflower seeds. Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development Vol. 23, Issue 4, p 609-618, PRINT ISSN 2284-7995 E-ISSN 2285-3952.

WOS:001137127700041

https://managementjournal.usamv.ro/pdf/vol.23_4/volume_23_4_2023.pdf

<https://www.webofscience.com/wos/woscc/full-record/WOS:001137127700041>

JIF 2023: 1

C.2 Articole publicate în reviste indexate ISI Web of Science fără factor de impact

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C.3 Articole publicate în reviste indexate BDI sau B+ (indexate BDI)

1. **Bălan Mihaela – 2025.** Study on the evolution and dynamics of anti-erosional managed areas at national level across diverse land use categories. Analele Universității din Craiova, seria Agricultură –Montanologie –Cadastru (Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series) Vol. 55/1, p. 23-31.
DOI:
<https://doi.org/10.52846/aamc.v55i1.1657>
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1657/1555>
2. **Bălan Mihaela – 2024.** Study on the areas arranged for irrigation, as well as those actually irrigated, at the national level. Analele Universității din Craiova, seria Agricultură – Montanologie –Cadastru (Annals of the University of Craiova -Agriculture, Montanology, Cadastre Series) Vol. 54/1/2024, p. 334-341.
DOI:
<https://doi.org/10.52846/aamc.v54i1.1580>
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1580/1495>
3. **Bălan Mihaela – 2023.** Properties of typical districambosol soil under the influence of surface erosion. Analele Universității din Craiova, seria Agricultură –Montanologie – Cadastru (Annals of the University of Craiova -Agriculture, Montanology, Cadastre Series) Vol.53/1/2023, p. 332-339.
DOI:
<https://doi.org/10.52846/aamc.v53i1.1484>
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1484/1406>
4. **Bălan Mihaela, Popescu C. -2022.** Study regarding excess moisture lands and the development of arrangements to remove it. Analele Universității din Craiova, seria Agricultură –Montanologie –Cadastru (Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series), Vol. 52 No. 1 (2022), p. 366-371.
DOI:
<https://doi.org/10.52846/aamc.v52i1.1360>
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1360/1279>
5. **Bălan Mihaela – 2021.** Study on the soils of Gorj County and their quality. Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru (Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series) Vol. 51/1/2021, p.199-206,
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1276/1205>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/23>
6. **Bălan Mihaela – 2020.** Study on the situation of anti-erosionally arranged lands for south-west Oltenia Region. Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru (Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series) Vol. 50/1/2020, p. 248-253,
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1063/998>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/21>

7. **Bălan Mihaela – 2019.** The evolution of some types of soil under the influence of surface erosion. Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru (Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series) Vol. 49/2/2019, p.235-242
<https://anale.agro-craiova.ro/index.php/aamc/article/view/956/904>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/20>
8. **Bălan Mihaela -2017.** „Researches on the evolution of soil main chemical indicators under the influence of different crops, soil water erosion and fertilization on typical luvisol from Experimental field Preajba, Gorj County”, Analele Universității din Craiova, seria Agricultură –Montanologie –Cadastru (Annals of the University of Craiova -Agriculture, Montanology, Cadastre Series) Vol. XLVII/1/2017, p.260-267;
<https://anale.agro-craiova.ro/index.php/aamc/article/view/590/551>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/11>
9. Popescu C., **Bălan Mihaela, - 2017** „The natural genesis conditions of soil and its types from the south western part of Dolj District, Pîșcu Vechi and Ghidici zone”, Analele Universității din Craiova, seria Agricultură –Montanologie –Cadastru (Annals of the University of Craiova -Agriculture, Montanology, Cadastre Series), Vol. XLVII/1/2017, p. 368-373;
<https://anale.agro-craiova.ro/index.php/aamc/article/view/606/567>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/11>
10. **Bălan Mihaela, Pătru Fl. - 2013.**The influence of fertilizers on corn yield on slope soil affected by surface erosion. Analele Universității din Craiova, seria Agricultură – Montanologie –Cadastru (Annals of the University of Craiova -Agriculture, Montanology, Cadastre Series) Vol. XLIII /1/2013, p 19 – 24;
<https://anale.agro-craiova.ro/index.php/aamc/article/view/3/3>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/1>
11. **Bălan Mihaela, Pătru Fl. – 2013.** The influence of fertilizers on hay production on slopy soils affected by surface erosion. Analele Universității din Craiova, seria Agricultură – Montanologie –Cadastru (Annals of the University of Craiova -Agriculture, Montanology, Cadastre Series)Vol. XLIII /1/2013, p. 25 – 30;
<https://anale.agro-craiova.ro/index.php/aamc/article/view/4/4>
<https://anale.agro-craiova.ro/index.php/aamc/issue/view/1>
12. **Bălan Mihaela, Popescu CV., Pătru Fl., Susinski M -2012.** Soil losses through water erosion at the Preajba Gorj Research Station. Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru Vol. XLII/1/2012, ISSN 1841-8317, p. 283 – 287.
http://cis01.central.ucv.ro/analele_universitatii/agricultura/2012.pdf
13. **Bălan Mihaela, Popescu CV., Pătru Fl., Susinski M. – 2012.** The evolution of the humus and nutrients losses through water erosion in 2007. Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru Vol. XLII/1/2012, ISSN 1841-8317, p. 288 – 291.
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1783>
<https://anale.agro-craiova.ro/index.php/aamc/article/view/1783/1674>

14. **Bălan Mihaela – 2010.** The soil losses by erosion in Preajba zone, District Gorj, under the influence of climate, human activity and vegetation. *Analele Universitatii din Craiova, seria Agricultura – Montanologie – Cadastru* Vol. XL/1/ 2010, ISSN 1841-8317, p. 294 – 297.
http://cis01.central.ucv.ro/analele_universitatii/agricultura/2010/Vol_40_1_2010.pdf
15. **Bălan Mihaela -2008.** The evolution of certain agro-chemical values within certain experiments with corn, natural lawn and seeded lawn from the Experimental Center Preajba Gorj, in the second and third year of experimenting., *Analele Universitatii din Craiova, seria Agricultura – Montanologie – Cadastru, Simpozionul “Agricultura durabila, agricultura viitorului”*, vol. XXXVIII/A/2008, p. 300-303, ISSN 1841-8317;
http://cis01.central.ucv.ro/analele_universitatii/agricultura/2008/vol_XXXVIII_A_2008.pdf

D. PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

1. Lulea C., **Burtea Mihaela, -2006** “The variation of the Jiu river capacity flows in the sector Filiasi – Zaval between 2000 and 2004”, 41st Croatian & 1st International symposium on agriculture, pag. 267 – 268, 13th – 17th February 2006 Opatija – Croatia, ISBN 953-6331-39-X.
2. Lulea C., Stefan M., **Burtea Mihaela, -2006.** The variation of the Jiu river levels in the sector Filiasi – Zaval between 2000 and 2004”, 41st Croatian & 1st International symposium on agriculture, pag. 265 – 266, 13th – 17th February 2006 Opatija – Croatia, ISBN 953-6331-39-X.
3. **Burtea Mihaela, - 2007.** Current status of soil degradation through the erosion process. The 3th edition of Scientific Conference with International Participation,,Durable Agriculture-Agriculture of Future, Craiova, Romania, 22th-23th Nov. 2007, p. 111 – 115, ISSN 1841-8317
4. **Burtea Mihaela, - 2007.** The evolution of certain agro-chemical values within certain experiments with natural lawn and seeded lawn from the Experimental Center Preajba Gorj”, The 3th edition of Scientific Conference with International Participation,,Durable Agriculture-Agriculture of Future, Craiova, Romania, 22th-23th Nov. 2007, p. 116 – 122, ISSN 1841-8317;
5. Lulea C., **Burtea Mihaela, -2007.** The water features of Danube and Jiu rivers”, The 3th edition of Scientific Conference with International Participation,,Durable Agriculture-Agriculture of Future, Craiova, Romania, 22th-23th Nov. 2007, p 188 – 192, ISSN 1841-8317.
6. Lulea C., **Burtea Mihaela, - 2006.** The wind erosion, its effects and consequences on agriculture in Dolj District”, The 2nd edition of Scientific Conference with International Participation,,Durable Agriculture-Agriculture of Future, Craiova, Romania, Nov. 2007 p. 192-195, ISSN 1841-8317.
7. Lulea C., **Burtea Mihaela, - 2006.** Some aspects of the soils degradation by erosion”, The 2nd edition of Scientific Conference with International Participation,,Durable Agriculture-Agriculture of Future, Craiova, Romania, Nov. 2007, p.196-199, ISSN 1841-8317.

E. Brevete obținute în întreaga activitate –

F. Experiența acumulată în programe naționale/internaționale:

Programul/Proiectul	Funcția	Perioada: de la... până la...
Contract MEC CNCSIS, tip TD, nr. 27 GR / 11.05.2007, 65 GR / 11.06.2008. "Starea de calitate a unor soluri erodate din județul Gorj", cod CNCSIS 172.	Director contract	2007- 2008
Contract MEC CNCSIS, tip AT, nr. 27 GR / 11.05.2007. "Monitoringul calității solurilor din județul Dolj", cod CNCSIS 110, Director de grant: Șef lucr., dr. Dodocioiu Ana-Maria	Membru în echipa de cercetare	2007-2008
Contract Cercetare Dezvoltare Inovare 257//.2019-2022: Proiect ROSE, sub-proiect "Construiește-ți viitorul alături de noi", AG 257/SGU/NC/II din 29.11.2019, Ministerul Educației și Cercetării, prin Unitatea de Management al Proiectelor cu Finanțare Externă (MEC-UMPFE), Str. Spiru Haret, nr.12, sector 1 București	Membru echipă	2019-2022

Data**03.06.2026****Sef lucrari univ. Bălan Mihaela**