

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Ingineria Sistemelor Biotehnice

Departamentul: Sisteme Biotehnice

Nume Prenume: MAICAN EDMOND

Gradul didactic: Profesor universitar

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Maican E., *Cercetări privind optimizarea procesului de lucru al rabatorului combinelor de cereale în concordanță cu proprietățile fizico-mecanice ale plantelor*, Universitatea “Transilvania” din Brașov, 254 pg., februarie, 2001.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Moise V., **Maican E.**, Moise Șt.-I., *Metode numerice – Aplicații în MATLAB*, Editura Printech, București, ISBN 978-606-23-0625-0, 2016 (292 pag.).
2. **Maican E.**, *Sisteme de energii regenerabile*, Editura PRINTECH (cod CNCSIS: 54), București, 136 pg., ISBN 978-606-23-0359-4

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **E. Maican**, A. Iosif, S. Maican – *Precision Corn Pest Detection: Two-Step Transfer Learning for Beetles (Coleoptera) with Mobilenet-SSD*, Agriculture, ISSN 2077-0472, **2023** (ISI Web of Science (**Clarivate Analytics**): **Q1**; WOS:001130499700001) [[AGRICULTURE](#)];
2. A. Iosif, **E. Maican**, S.-Șt. Biriș, L. Popa – *Assessment of Aples using Convolutional Neural Networks*, INMATEH Agricultural Engineering, vol. 71, nr. 3, pp. 483-498, ISSN 2068-4215, Decembrie **2023** (ISI Web of Science (**Clarivate Analytics**); WOS:001128094000003) [[INMATEH](#)];
3. N.E. Gheorghită; S.-Șt Biriș; V.Vlăduț; N. Ungureanu; **E. Maican**; M. Matache - *Research on the development of a calculus algorithm to estimate the resistant force of self-vibrating cultivators used for seedbed preparation*, UPB Scientific Bulletin, Series D: Mechanical Engineering, ISSN 1454-2358, vol. 84, Nr. 2, pg. 185 – 195; **2022** (B+, Cod CNCSIS 102), [[SCOPUS](#), [ULRICH'S](#), [CSA – Cambridge Scientific Abstracts](#), [ELSEVIER/SciVerse Scopus](#), [Engineering Village](#)];
4. I.C. Duțu, T. Axinte, **E. Maican**, C. Nuțu, M. Diaconu - *The use of double-acting cylinders in electro-hydraulic circuit*, Technium: Romanian Journal of Applied Sciences and Technology, vol. 4, nr. 5, pp. 15-20, ISSN: 2668-778X, **2022** (EBSCO, Index Copernicus, Crossref etc.).
5. I.C. Duțu, T. Axinte, **E. Maican**, C. Frățilă, C. Nutu, A. Savastre - *Research regarding use of pneumatic linear actuator*, Technium: Romanian Journal of Applied Sciences and Technology, vol. 4, nr. 2, pp. 55-63, ISSN: 2668-778X, **2022** (EBSCO, Index Copernicus, Crossref etc.).
6. I.C. Duțu, T. Axinte, **E. Maican**, C. Frățilă, R.G. Damian, E. Curcă, V. Bădănuș - *Researches regarding the use of non-conventional actuators*, Technium: Romanian Journal of Applied Sciences and Technology, vol. 3, nr. 10, pp. 1-10, ISSN: 2668-778X, **2021** (EBSCO, Index Copernicus, Crossref etc.).

7. V. Vladuț, I. L. Caba, A. M. Constantin, Ghe. Voicu, **E. Maican**, C. Vilcu, B. Lefter - *Principles of integration the agri-drones in agricultural production environments. New concepts towards agriculture-5.0*, Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series, Section **Working** Group 4 - Management, agriculture mechanization and cadastre, vol. 51, no. 2, **2021** (Google Scholar, Crossref, DOAJ – through Open Journal Systems); Craiova, Romania.
8. S.Șt. Biriș, N.E. Gheorghită, V. Vlăduț, M.G. Matache, **E. Maican**, M.F. Duțu, R.M. Chir - *Relationship between the influence factors of the soil tillage process*, Journal of International Scientific **Publications: Agriculture & Food**, vol. 10, pp. 409-417, ISSN: 1314-8591, **2022** (AGRIS, CNKI, Microsoft Academic, CiteSeerX etc.).
9. V. Dulgheru, C. Dumitrescu, **E. Maican**, O. Ciobanu, R. Rădoi - *Defining the Main Parameters of a Darrius Type Wind Turbine with a Power of 1 kW*, Revista “HIDRAULICA”, nr. 3, **2021**, pp.43-50, EBSCO Publishing, ProQuest, IndexCopernicus, UlrichsWeb, Google Scholar, Scientific Indexing Services, CiteFactor, Electronic Journals Library EZ3, Infobase Index, JIFactor, TIB
10. V. Dulgheru, C. Dumitrescu, **E. Maican**, O. Ciobanu, R. Rădoi - *Analysis and Optimization of a Savonius-Darrius Hybrid Wind Turbine*, Annals of the Faculty of Engineering Hunedoara, vol. 19, nr. 2, **2021**, pp.151-156, ISSN: 1584-2665, EBSCO Publishing, ProQuest, IndexCopernicus, ProQuest, Scirus, evisa, Chemical Abstract Services etc.
11. **E. Maican**, V. Vlăduț, C. Vilcu; C. Sorică; M. Dorian, D.P. Mirea, R. Bogățeanu - *Hybrid Renewable Energy Systems for Isolated Farms. A Review*, INMATEH **Agricultural Engineering**, vol. 59, nr. 3, pp. 77-92, ISSN 2068–4215, **2019 (ISI Web of Science (Clarivate Analytics); WOS:000504038200010)**.
12. **E. Maican**, M. Ferdeș - *Advances and perspectives in second generation biofuels production*, Journal of Biotechnology, vol. 208, 2015 (**ISI Web of Science (Clarivate Analytics); WOS: 000359087000025; Impact Factor: 2.843**).
13. I.C. Duțu, **E. Maican**, S.Șt. Biriș, M.Fl. Duțu, M.G. Munteanu, *Simulation of an Electro-Hydraulic System for a P.E.T. Waste Baling Press*, Revista “HIDRAULICA”, nr. 4, **2018**, pp.6-11, EBSCO Publishing, ProQuest, **IndexCopernicus**, UlrichsWeb, Google Scholar, Scientific Indexing Services, CiteFactor, Electronic Journals Library EZ3, Scholarsteer, Infobase Index, JIFactor, TIB
14. I.C. Duțu, **E. Maican**, S.Șt. Biriș, M.Fl. Duțu, *Automatic Electro-Hydraulic System for a P.E.T. Waste Baling Press*, Revista “HIDRAULICA”, nr. 3, **2018**, pp.68-73, EBSCO Publishing, ProQuest, IndexCopernicus, **UlrichsWeb**, Google Scholar, Scientific Indexing Services, Academic Keys, CiteFactor, Electronic Journals Library EZ3, Scholarsteer, Infobase Index, JIFactor, TIB
15. V. Vlăduț, **E. Maican**, L. Apostol, N. Ungureanu, I. Dumitru, R. Oprescu - *Verification of Stress by FEM Analysis/Mechanical Testing of Agricultural Mobile Aggregates Coupling Devices*, INMATEH **Agricultural Engineering**, vol. 54, nr. 1, pp. 39-46, **2018**, ISSN 2068–4215 (**ISI Web of Science (Clarivate Analytics); WOS:000438910100006**)
16. **E. Maican**, I.C. Duțu, G. Matache, C. Dumitrescu, I. Pavel - *CFD Analysis of an Improved TLUD Based Equipment for Heating Small Greenhouses and Hothouses*; INMATEH-Agricultural Engineering Vol. 53, Issue: 3, pp. 5-12, **2017**, ISSN: 2068-4215, (**ISI Web of Science (Clarivate Analytics); WOS:000424495300001**)
17. I.C. Duțu, S.Șt Biri, **E. Maican** - *Study on the Use of Digital Hydraulics in P.E.T. Waste Baling Presses*, HIDRAULICA Magazine No. 4 / **2017**, ISSN: 1453 – 7303, pp. 109-114 (EBSCO Publishing, ProQuest, IndexCopernicus, UlrichsWeb, Google **Scholar**, Scientific Indexing Services, Academic Keys, CiteFactor, Electronic Journals Library EZ3, Infobase Index, JIFactor);
18. S.St. Biriș, N. Ungureanu, N.E. Gheorghită, **E. Maican**, V. Vlăduț – *Theoretical Research on Enhancing the Performance of Cultivators Working Bodies*, Proceeding of the 45th International Symposium „Actual Tasks on Agricultural Engineering”, Croația, Opatija, ISSN 1848-4425, pg. 121-129, 21 - 24 febr. 2017, [**ISI Web of Science (Clarivate Analytics); WOS:**

- 000432420200012**; CAB International; Cambridge Scientific Abstracts – InterDok]; <http://atae.agr.hr/>
19. **E. Maican**, S.Șt. Biris, C. Persu, M. Dutu, M.G. Matache, S. Iordache, C. Alfianu – *Nonlinear impact resistance simulation of a newly designed roof from an agricultural tractor cabin*, Proceeding of the 46th International Symposium „Actual Tasks on Agricultural Engineering”, Croația, Opatija, ISSN 1848-4425, pg. 231-238, 27 febr.-1 martie. 2018, [ISI Web of Science (**Clarivate Analytics**); **WOS: 000506355900022**; CAB International – Agricultural Engineering Abstracts; Cambridge Scientific Abstracts – InterDok]; <http://atae.agr.hr/>
 20. G. Moiceanu, G. Paraschiv, **E. Maican**, M. Dincă, I. Găgeanu, V.N. Arsenoiaia - *Aspects regarding FEM simulation of stress in hammer mill working tool*, Proceeding of the 8th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2019; Targoviste; Romania; ISSN 2555-0403; [ISI Web of Science (**Clarivate Analytics**); **WOS:000619989000051**] [[TERERD](#)]
 21. G. Gheorghe, C. Persu, M. Mihai, D. Cujbescu, S.St. Biris, **E. Maican** – *Theoretical simulation for protective structure of operator cabin against falling object*, Proceeding of the 46th International Symposium „Actual Tasks on Agricultural Engineering”, Croația, Opatija, ISSN 1848-4425, pg. 223-230, 27 febr.-1 martie. **2018**, CAB International – Agricultural Engineering Abstracts; Cambridge Scientific Abstracts – InterDok]; [ISI Web of Science (**Clarivate Analytics**); **WOS:000506355900021**]; <http://atae.agr.hr/>
 22. G. Matache, **E. Maican**, I. Pavel, R.I. Rădoi - *Applied Research and Experimental Validation of a TLUD Industrial Solution*, HIDRAULICA Magazine No. 3 / **2017**, ISSN: 1453 – 7303, pp. 18-26 (EBSCO Publishing, ProQuest, IndexCopernicus, UlrichsWeb, Google Scholar, Scientific Indexing Services, Academic Keys, CiteFactor, **Electronic Journals Library EZ3**, Scholarsteer, Infobase Index, JIFactor, TIB)
 23. C. Vilcu, Gh. Voicu, C. B. Lehr, **E. Maican**, P. Tudor, V. V. Safta - *3SWQM - watermark for pollution control of surface water*, Proceedings of the 45th International Symposium on Agricultural Engineering - Actual Tasks on Agricultural Engineering; ISSN 1848-4425, pg. 87-98, 21-24 Febr. **2017**, Opatija, Croatia (**ISI Proceedings (Clarivate Analytics)**; **WOS:000432420200009**)
 24. **E. Maican**, I. C. Duțu - *CFD Validation of a Novel Heat Generation Equipment for Greenhouses and Hothouses*, Proceedings of the 45th International Symposium on Agricultural Engineering - Actual Tasks on Agricultural Engineering; ISSN 1848-4425, pg. 481-490, 21-24 Febr. **2017**, Opatija, Croatia (**ISI Proceedings (Clarivate Analytics)**; **WOS:000432420200051**).
 25. S. Șt. Biriș, **E. Maican**, V. Vlăduț, S. T. Bungescu, N. Ungureanu, D. I. Vlăduț - *Stress and Strains Distribution in the Frame of Agricultural Cultivators Using the Finite Element Method*, Proceedings of the 44th International Symposium on Agricultural Engineering - Actual Tasks on Agricultural Engineering; ISSN 1848-4425, pg. 111-118, 23-26 Febr. **2016**, Opatija, Croatia (**ISI Proceedings (Clarivate Analytics)**; **WOS:000432240900009**).
 26. **E. Maican**, E. Murad, G. Cican, I.C. Dutu - *Analysis of a Top Lit Updraft Gasification System Designed for Greenhouses and Hothouses*, Proceedings of the 16th International Multidisciplinary Scientific Geoconferences (SGEM2016), vol. I: Energy and Clean Technologies, ISSN 1314-2704, pp. 107-114, Albena, Bulgaria, **2016** (**ISI Proceedings (Clarivate Analytics)**; **WOS:000391348600014**).
 27. A. Coz, T. Llano, E. Cifrian, J. Viguri, **E. Maican**, H. Sixta - *Physico-chemical alternatives in lignocellulosic materials in relation to the kind of component for fermenting purposes*; Materials; nr.7 / **2016**, vol. 9, ISSN: 1996-1944 (**ISI Web of Science (Clarivate Analytics)**, **Impact Factor: 3.532**; **WOS: 000380761500076**);
 28. S.St. Biriș, **E. Maican**, E. Marin, S. Bungescu, V. Vlăduț, N. Ungureanu, D.I. Vlăduț, A. Atanasov - *Structural Statical Analysis of Working Bodies of Agricultural Cultivators*, Acta Technica

Corviniensis – Bulletin of Engineering, ISSN: 2067 – 3809, Vol. 4, nr. 4, pg. 91-94, **2016** (CNCSIS B+, SCPIO, Index Copernicus, SCIRUS, EBSCO, ProQuest, etc.).

29. A. Coz, T. Llano, C. Rueda, N. Quijorna, **E. Maican** - *Hydrolysis and Separation of Lignocellulosic Biomass in a Sulphite Process to Valorize the Main Fractions within the Biorefinery Concept*, Annals of Faculty Engineering **Hunedoara** – International Journal of Engineering, ISSN: 1584-2665, vol. 14, nr. 3, pg. 117-120, **2016** (CNCSIS B+, SCPIO, Index Copernicus, SCIRUS, EBSCO, ProQuest, CiteFactor, getCITED etc.)
30. **E. Maican**, J.A. Teixeira, M. Ferdes, A. Coz - *Energy Efficient Technologies for Lignocellulosic Ethanol Production*, Annals of **Faculty Engineering Hunedoara** – International Journal of Engineering, ISSN: 1584-2665, vol. 14, nr. 4, pg. 81-90, 2016 [SCPIO, ROADIndex Copernicus etc.] <http://annals.fih.upt.ro/pdf-full/2016/ANNALS-2016-4-12.pdf>
31. **Maican E.**, Teixeira J.A., Ferdeş M., Coz A. - *Energy efficient technologies for lignocellulosic ethanol production*, Proceedings of the International Symposium ISB-INMA TEH' 2015 – Agricultural and Mechanical Engineering, Bucharest, Romania, ISSN 2344–4118 (CD-ROM: 2344-4126), pg. 435-446, 29-31 oct. **2015**, [CAB International - Agricultural Engineering Abstracts]
32. Murad E., **Maican E.**, Dumitrescu C., Biriş S.-Şt. - *Extending the Use of Hothouses through Heating with Residual Agricultural Biomass*, **Journal of Energy and Power Engineering**, ISSN: 1934-8975, vol. 9, nr. 9, **2015** [CSA - Cambridge Science Abstracts, ULRICHs, EBSCO, Chemical Abstracts Service, CiteFactor, ProQuest, American Federal Computer Library Center, INNO Space]; [[DavidPublisher](#)]
33. Biriş S.Şt., **Maican E.**, Marin E., Bungescu S., Vlăduţ V., Ungureanu N., Vlăduţ D.I., Atanasov At. - *Structural statical analysis of working bodies of agricultural cultivators*, Proceedings of the International Symposium ISB-INMA TEH' 2015 – Agricultural and Mechanical Engineering, Bucharest, Romania, ISSN 2344–4118 (CD-ROM: 2344-4126), pg. 147-152, 29-31 oct. **2015**, [CAB International - Agricultural Engineering Abstracts]
34. Coz A., Llano T., Rueda C., Quijorna R., **Maican E.** - *Hydrolysis and separation of lignocellulosic biomass in a sulphite process to valorise the main fractions within the biorefinery concept*, Proceedings of the International Symposium ISB-INMA TEH' 2015 – Agricultural and Mechanical Engineering, Bucharest, Romania, ISSN 2344–4118 (CD-ROM: 2344-4126), pg. 223-228, 29-31 oct. **2015**, [CAB International - Agricultural Engineering Abstracts]

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

a) Reviste

1. I.D.I. Mircea, L. David, G. Paraschiv, S. Şt. Biriş, V. Vlăduţ, I. Grigore, **E. Maican**, N. Ungureanu, I. Găgeanu - *Theoretical Researches on the Forces and Stresses in Coupling Devices-Review*, Analele Universității din Craiova, seria Agricultură – Montanologie – Cadastru, vol.46, Nr. 2 / **2017**, ISSN: 1841-8317, pp. 476-487.
2. D. I. Vladut, L. David, E. Marin, S. St. Biriş, I. Voiculescu, **E. Maican**, et. al - *Research on the Development of a Conservative Technology, Using Optimized Active Bodies for Soil Tillage*, Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series, vol. 45 / **2015**, nr. 2, ISSN: 1841-8317.

b) Selecție cu maximum 20 lucrări în volume de conferințe

1. I.L. Caba, A.M. Marin, Ghe. Voicu, **E. Maican**, I. Duțu, C. Brăcăcescu, L. Popa, N. M. Horablaga, C.C. Buzna, Ctin. Vilcu - *Precision agriculture, the role of agridrones for a sustainable farming environment. A review*; ISE – Agriculture & Food, 9th International Conference, 16-19 august

- 2021, ISE-Burgas, Vol. 9, pp. 303-315, Burgas, Bulgaria; <https://www.scientific-publications.net/en/article/1002170/>
2. L. Dumitrescu, **E. Maican**, I. Pavel, C. Dumitrescu, I. Găgeanu, A. Pătruț - *Using CFD to improve the performance of a heat exchanger from a gasifier*, Proceeding of the 10th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2021, vol.286; eISSN: 2267-1242;
 3. Vîlcu C., Vlăduț V, Voicu Gh, Broman D.R., Bourouah M., Loupis M., Vlad G., **Maican E.**, Bogateanu R., Pacuraru S., Alecu L.G., Lehr C.B. - *MAqD – Watermark for Live Online Dynamic Monitoring, Rivers or Offshore*, International Symposium on Agricultural and Mechanical Engineering ISB-INMA 'Teh 2020, 30th of Oct. 2020, ISSN 2344 - 4118, pp. 690-702;
 4. Arce C., Llano T., González-López S., **Maican E.**, Ferdes M., Coz A. - *Use of deep eutectic solvent in lignocellulosic pre-treatment and cellulose-based products*, NWBC 2020, Stockholm March 24-26, 2020
 5. Arce C.; **Maican E.**; Llano T.; Ferdes M.; Coz A. - *Lignocellulosic waste pretreatment with deep eutectic solvents*, 4th Iberoamerican Conference about Biorefineries CIAB, Jaén, Spain, 2018.
 6. Angheliet A., **Maican E.**, Nedelcu A., Zaica A., Cristescu A., Stefan V - *Aspects Regarding the Analysis of The Stress in Front Loader Components*, International Symposium on Agricultural and Mechanical Engineering ISB-INMA 'Teh 2018, 1-3 Nov. 2018, ISSN 2344 - 4118, pp. 357-362
 7. I.C. Duțu, S.Șt. Biriș, **E. Maican**, P. Tudor, R.I. Rădoi - *Investigation of a digital hydraulic actuation system for a waste baling press*, 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development; Drobeta Turnu Severin; 31 mai - 2 iunie 2018; ISSN 2457-3302; ISSN-L 2457-3302; pag. 245-250
 8. Dumitru I., Persu C., Oprescu M., Cujbescu D., Cristescu A., Nitu M., Gageanu I., Biris S., **Maican E.**, Ungureanu N. - *Complex Testing of Protective Structures of Operators in an Overturning Incident*, Proceedings of the ISB-INMA TEH - Agricultural and Mechanical Engineering International Symposium, 26-28 Oct. 2017, pp. 891-898, ISSN 2344 - 4118, Bucharest, Romania.
 9. Mircea I.D., **Maican E.**, Vlăduț V., Dumitru I., Oprescu M., Iuga D., Ungureanu N., Gheorghe G., Marin E., Savin L., Vlăduț I.D - *Considerations on Nonlinear Static Analysis of Coupling Devices - Longitudinal Stresses*, Proceedings of the ISB-INMA TEH - Agricultural and Mechanical Engineering International Symposium, 26-28 Oct. 2017, pp. 729-736, ISSN 2344 - 4118, Bucharest, Romania.
 10. Popa V., Popa R., Biriș S.Șt., **Maican E.** - *Research on the Optimal Design of the Retractable Finger From a Combine Harvester's Auger*, Proceedings of the ISB-INMA TEH - Agricultural and Mechanical Engineering International Symposium, 26-28 Oct. 2017, pp. 481-486, ISSN 2344 - 4118, Bucharest, Romania.
 11. Biriș S.Șt., **Maican E.**, Ungureanu N., Gheorghită N.E., Perșu C., Kovacev I. - *Research on the Implementation of Using FEM Analysis to Increase the Testing Efficiency for Resistance Structure of Agricultural Tractors Cabins*, Proceedings of the ISB-INMA TEH - Agricultural and Mechanical Engineering International Symposium, 26-28 Oct. 2017, pp. 473-480, ISSN 2344 - 4118, Bucharest, Romania.
 12. Gabriela MATACHE, Ioan PAVEL, Petrin DRUMEA, Alexandru HRISTEA, **Edmond MAICAN** - *Experimental Research on the Methods of Valorification of Biomass Waste*, 23rd Edition of International Conference on Hydraulics, Pneumatics, Sealing Elements, Fine Mechanics, Tools, Specific Electronic Equipment & Mechatronics HERVEX 2016, 8-10 Nov. 2017, Baile Govora, Romania.
 13. S.Șt. Biriș, **E. Maican**, N. Ungureanu, C. Persu, M. Matache, M. Oprescu - *Aspects on the efficiency of roll-over protective structures testing*, Proceedings of the 6th International Conference

on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), ISSN 2457 – 3302, pg. 301-306, 8-10 Iunie 2017, Moieciu de Sus – Romania.

14. D.I. Vlăduț, L. David, E. Marin, S.Șt. Biriș, I. Voiculescu, **E. Maican** et.al, - *Aspects Regarding the Increase of Durability for Active Working Bodies of Equipment for Working the Soil in a Conservative System*, Proceedings of the 5th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), ISSN 2359-7941, pg. 405-410, 2-4 Iunie 2016, Golden Sands, Bulgaria.
15. M. Ferdeș, M. Dincă, L. Toma, **E. Maican**, M. Ștefan - *Inhibitory Effect of Six Essential Oils Against Food Contaminant Bacterial Species*, Proceedings of the 5th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), ISSN 2359-7941, pg. 239-244, 2-4 Iunie 2016, Golden Sands, Bulgaria.
16. Vilcu C., Voicu Gh., **Maican E.**, Tudor P., Cican G., Deaconu M. - *Special Station for Live-Online- Dynamic Monitoring of Water Quality*, Proceedings of the 5th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), ISSN 2359-7941, pg. 395-400, 2-4 Iunie 2016, Golden Sands, Bulgaria.
17. **Maican E.**, Coz A., Ferdeș M. - *Continuous pretreatment process for bioethanol production*, Proceeding of the 4-th International Conference of Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2015), Vidraru, România, ISSN 2457–3302, Politehnica Press, pg. 287-292, 4-6 iunie 2015.
18. M. Ferdeș, **E. Maican**, M. Ștefan, M. Dinca - *Effect of nitrogen sources on growth and pigmentation of Rhodotorula Rubra in submerged culture*, Proceeding of the 4-th International Conference of Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2015), Vidraru, România, ISSN 2457–3302, Politehnica Press, pg. 209-214, 4-6 iunie 2015.
19. G. Matache, **E. Maican**, E. Murad, I. Pavel - *Increasing energy independence of tunnel type mini-greenhouses and solariums*, sub tipar în Proc. of 23-rd International Scientific and Technical Conference CYLINDER 2015 - Testing, Designing, Manufacturing and Operation of Hydraulic Systems, Kliczków Castle, Poland, 23-25 septembrie 2015.

E. Brevete obținute în întreaga activitate

1. PERSU I C, BIRIS S S, **MAICAN E**, GHEORGHE G V, CUJBESCU D I, GAGEANU I - *Method for testing self-propelled agricultural equipment operators protection structures for exceptionally occurring cases of capsizing, involves performing experimental analysis using test installation in simulated and accelerated regime*; Patent Number: RO133889-A2; Derwent Manual Codes: S02-J02; S02-J03; 2020;
2. Vlăduț N.V., Marin E., Matache M.G., Biriș S.Șt., **Maican E.**, Grigore I., Ungureanu N. - *Method for determining linear intensity of wear of chisel-type active organ of soil-working equipment, involves continuously measuring normal force on friction surface of chisel active portion placed on measuring stand*; Patent Number: RO132885-A2; Derwent Primary Accession Number: 2019-371487;

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Semnătura: