**LISTA LUCRĂRI ȘTIINȚIFICE PUBLICATE**

Datcu Adina-Daniela

**Teză de doctorat**

**Datcu A.D.** Variația unor indici fiziologici, a producției și a calității la grâu în raport cu sistemul de fertilizare, sub conducerea prof. dr. ing. Florin Sala, susținută public în 29.09.2020.

**Lucrări cotate ISI, cu FI**

1. **Datcu A.D.**, Ciobanu D.G., Boros B.V., Ostafe V., Ianovici N. 2020. A new approach for phytotoxicity testing using *Allium cepa* bulbs. Romanian Biotechnological Letters, 25(2): 1488-1494. FI: 0.765.

2. Ianovici N., Batalu A., Hriscu D., **Datcu A.D.** 2020. Phytomonitoring study on intra urban variations of leaves of some evergreen and deciduous trees. Ecological Indicators, 114: 106313. FI: 4.229.

3. Gheroghe I., Avram I., Corbu V.M., Marutescu L., Popa M., Balotescu I., Blajan I., Mateescu V., Zaharia D., Dumbrava A.S., Zetu O.E., Pecete I., Cristea V., Batalu D., Grigoroscuta M.A., Burdusel M., Aldica G.V., Badica P., **Datcu A.D.**, Ianovici N., Bleotu C., Lazar V., Ditu L., Chifiriuc M.C. 2021. In vitro evaluation of MgB2 powders as novel tools to fight fungal biodeterioration of heritage buildings and objects. Frontiers in Materials, 7: 601059. FI: 2.705.

4. Boros B.-V., Grau N.I., Isvoran A., **Datcu A.D.,** Ianovici N., Ostafe V. 202. A study of the effects of sodium alginate and sodium carboxymethyl cellulose on the growth of the common duckweed (*Lemna minor* L.), Journal of Serbian Chemical Society, 87(5): 657-667. FI: 1.1.

**Lucrări indexate ISI, fără FI**

5. **Datcu A.D.**, Ianovici N., Alexa E., Sala F. 2019. Nitrogen fertilization effects on some gravimetric parameters for wheat. AgroLife Scientific Journal 8(1): 87-92.

6. **Datcu A.D.**, Ianovici N., Sala F. 2020. A method for estimating nitrogen supply index in crop plants: case study on wheat, Journal of Central European Agriculture, 21(3): 569-576.

**Lucrări indexate în Baze de Date Internaționale**

7. **Datcu A.D.** 2014. Investigations about the seasonal dynamics in the urban environment on *Plantago major*. Annals of West University of Timişoara, ser. Biology, 17 (2): 87-94.

8. Ianovici N., Vereș M., Catrina R.G., Pîrvulescu A.-M., Tănase R.M., **Datcu A.D.** 2015. Methods of biomonitoring in urban environment: leaf area and fractal dimension. Annals of West University of Timişoara, ser. Biology, 18 (2): 169-178.

9. Vlădoiu D.L., Bejinar C., Voiculescu D., Kolozsvari A., **Datcu A.D.**, Ciorsac A., Isvoran A. 2016. Bioinformatics analysis of cytochrome P450 2C family. Rom. J. Biopys, 26(2): 107-124.

10. **Datcu A.D.** 2017. Biomonitoring in Urban and Urban Green environments - morphometric and biomass allocation parameters. Annals of West University of Timisoara, ser. Biology, 20 (2): 185-192.

11. **Datcu A.D.**, Sala F., Ianovici N. 2017. Studies regarding some morphometric and biomass allocation parameters in the urban habitat on *Plantago major*. Research Journal of Agricultural Science, 49 (4): 96-102.

12. **Datcu A.D.**, Sala F. 2018. Nitrogen fertilization effect on aboveground biomass production in *Triticum aestivum*. Research Journal of Agricultural Science 50(4): 99-104.

13. **Datcu A.D.**, Sala F. 2018. Studies regarding the influence of nitrogen fertilizing dose on some ecophysiological parameters for *Triticum aestivum*. Research Journal of Agricultural Science 50(4): 105-110.

14. **Datcu A.D.**, Tănase R.M., Ianovici N. 2018. Biomass allocation parameters in *Taraxacum officinale*. Proceedings of the International Conference On Life Sciences (1): 411-417.

15. **Datcu A.D.**, Alexa E., Ianovici N., Sala F. 2019. Zinc fertilization effect on biomass production and some morphometric parameters for wheat. Research Journal of Agricultural Science 51(3): 93-98.

16. **Datcu A.D.**, Alexa E., Ianovici N., Sala F. 2019. Zinc foliar fertilization effect on some gravimetric indices for wheat. Research Journal of Agricultural Science 51(3): 99-105.

17. Sala F., **Datcu A.D.**, Rujescu C. 2020. Leaf area determination for *Alnus glutionosa* (L.) Gaertn using nondestructive methods, LSMA 22(2): 131-139.

18. Sala F., **Datcu A.D.**, Rujescu C. 2020. Fractal dimension and causality relationships with foliar parameters: case study at *Alnus glutinosa* (L.) Gaertn. Annals of West University of Timisoara, ser. Biology, 23(1): 73-82.

19. Sala F., **Datcu A.D.** 2020. Fractal analysis - a useful method for studying some anomalies of plant leaves. Scientific Bulletin Addendum 137-151.

20. Sala F., **Datcu A.D.**, Kolozsvari A.G. 2020. RGB color parameters in the characterization of chlorophyll deficiency in leaves. Case study: birch. Annals of West University of Timisoara, ser. Biology, 23(2): 241-250.

21. **Datcu A.D.**, Ciobanu D.G. 2020. Boron nanoparticles. Characterization, properties, utility and toxicity. Annals of West University of Timisoara, ser. Biology, 23(2): 257-264.

22. Kolozsvari A.G., **Datcu A.D.,** Sala F. 2020. Morphometric and physiological analysis of *Fagus sylvatica* and *Carpinus betulus* leaves. RJAS, 51(3): 66-71.

23. Riza A.S., **Datcu A.D.** 2021. Ecophysiological and gravimetric studies on ivy (*Hedera helix* l.) Leaves from different habitats. Annals of West University of Timişoara, ser. Biology, 24 (1): 93-100.

24. **Datcu A.D.,** Sala F. 2021. Studies regarding wheat leaves investments in relation with nitrogen supply. LSSD 2(2): 16-23.

25. **Datcu****A.D**., Ciobanu, D.G. 2021. *Aloe vera* effects on human body and pathogens - a review. Annals of West University of Timisoara, ser. Biology, under publication.

26. Pleșu M.I., Toplicean I.M., Pahomi A., Ciobanu D.G., **Datcu A.D.** 2022. Preliminary study regarding physiological behaviour of *Plantago major* in urban habitat using different methods. Case study: Timișoara. Annals of West University of Timisoara, ser. Biology, 25(2): 79-88.

27. Toplicean I.M., **Datcu A.D.** 2022. Flower color variation and detoxification mechanisms of Hydrangea sp. Annals of West University of Timisoara, ser. Biology, 25(2): 99-104.

28. Toplicean I.M., **Datcu A.D.,** Ianuș R. 2022. Properties and toxicity of *Betula pendula* extracts. Annals of West University of Timisoara, ser. Biology, 25(2): 89-98.

29. Drăgucian V.D., Lăpădat A.S., Ciobanu D.G., Ianovici N., **Datcu A.D.** Non-Invasive chlorophyll investigation on ornamental plants from urban habitats RJAS, 54(4): 31-36.

30. Lăpădat A.S., Drăgucian V.D., Ciobanu D.G., Ianovici N., **Datcu A.D**. Non-invasive anthocyanin investigation on some plant species from urban habitats RJAS, 54(4): 76-81.

31. Lăpădat A.S., Ionescu M.D., Sinitean A., Datcu A.D. 2023. Non-invasive anthocyanin and chlorophyll determinations on ivy from different habitats. JOURNAL of Horticulture, Forestry and Biotechnology 27(1): 1-6.

**Alte lucrări științifice publicate**

32. **Datcu A.D.**, Răcoiu V.A., Kolozsvari A.G. 2018. *Aesculus hippocastanum* L. – aspects regarding physiology and pharmaceutical properties. BIOSTUDENT 1(1): 15-22.

33. Bîlc B.A., **Datcu A.D.** 2018. *Hypericum perforatum* L. – characterization and main bioactive compounds BIOSTUDENT 1(2): 59-68.

34. **Datcu A.D.**, Kolozsvari A.G. 2018. *Petasites hybridus* – morphology and main biological active compounds. BIOSTUDENT 1(2): 81-88.

35. Bîlc B.A., **Datcu A.D.** 2019. Aspects regarding the bioactive compounds in *Ginkgo biloba*. BIOSTUDENT 2(1): 17-24.

36. Luchian M.R., **Datcu A.D.**, Ianovici N. 2019. The effect of glyphosate-based formulations on aquatic plants. BIOSTUDENT 2(1): 25-32.

37. Riza A.S., **Datcu A.D.** 2019. Characterization and uses of *Ricinus communis*. BIOSTUDENT 2(1): 33-38.

38. Gușiță B.R., **Datcu A.D.** 2019. *Chelidonium majus* – aspects regarding morphology and main bioactive compounds. BIOSTUDENT 2(1): 39-46.

39. Cocheci C.M., **Datcu A.D.** 2019. *Linaria vulgaris* – bioactive compounds and uses. BIOSTUDENT 2(2): 75-82.

40. Ienciu D., **Datcu A.D.** 2020. *Tilia sp.* - polllution indicator and its behaviour in urban habitat. BIOSTUDENT 3(1): 5-12.

41. Borca D.A.E., **Datcu A.D.** 2020. Morphology, bioactive compounds and uses of *Eichhornia crassipes*. BIOSTUDENT 3(2): 187-192.