LISTA LUCRĂRI ȘTIINȚIFICE PUBLICATE

Datcu Adina-Daniela

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 MgB_2 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. 2022. 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.

5. Toplicean, I.-M.; **Datcu, A.-D**. An Overview on Bioeconomy in Agricultural Sector, Biomass Production, Recycling Methods, and Circular Economy Considerations. Agriculture 2024, 14, 1143. FI 3.3. https://doi.org/10.3390/agriculture14071143

6. Toplicean, I.-M.; Ianuș R.-D.; **Datcu, A.-D.** An Overview on Nettle Studies, Compounds, Processing and the Relation with Circular Bioeconomy. Plants 2024, 13(24), 3529. FI 4.0. https://doi.org/10.3390/plants13243529

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7. **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.

8. **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.

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9. **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. ISSN on-line: 2285-7044

10. 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. ISSN on-line: 2285-7044

11. 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.

12. **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.

13. **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.

14. **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.

15. **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.

16. **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.

17. **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.

18. **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.

19. Sala F., **Datcu A.D.**, Rujescu C. 2020. Leaf area determination for *Alnus glutionosa* (L.) Gaertn using nondestructive methods, Lucrări Științifice Management Agricol 22(2): 131-139. ISSN online 2069-2307

20. 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. ISSN on-line: 2285-7044

21. Sala F., **Datcu A.D.** 2020. Fractal analysis - a useful method for studying some anomalies of plant leaves. Scientific Bulletin Addendum 137-151. ISSN 2501-3157

22. 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. ISSN on-line: 2285-7044

23. **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. ISSN on-line: 2285-7044

24. 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. ISSN 2668-926X

25. 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. ISSN on-line: 2285-7044

26. **Datcu A.D.,** Sala F. 2021. Studies regarding wheat leaves investments in relation with nitrogen supply. LSSD 2(2): 16-23. ISSN 2734 - 5068

27. **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, 24(2):115-124. ISSN on-line: 2285-7044

28. 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. ISSN on-line: 2285-7044

29. 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. ISSN on-line: 2285-7044

30. 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. ISSN on-line: 2285-7044

31. Toplicean I.M., Ciobanu D.G., Ianovici N., Datcu A.-D. 2022. Studies regarding physiological indices on leaves of Betula pendula from two different habitats. JOURNAL of Horticulture, Forestry and Biotechnology 26(4): 53-57. ISSN 3045-1876

32. Drăgucian V.D., Lăpădat A.S., Ciobanu D.G., Ianovici N., **Datcu A.D. 2023** Non-Invasive chlorophyll investigation on ornamental plants from urban habitats RJAS, 54(4): 31-36. ISSN 2668-926X

33. Lăpădat A.S., Drăgucian V.D., Ciobanu D.G., Ianovici N., **Datcu A.D**. 2023. Non-invasive anthocyanin investigation on some plant species from urban habitats RJAS, 54(4): 76-81. ISSN 2668-926X

34. 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. ISSN 3045-1876

35. Trăistaru P.R., Toplicean I.M., Kremer T.S.T., Drăgucian V.D., **Datcu A.-D**. 2023. Albizia julibrissin as a potential biomonitoring species in urban environments JOURNAL of Horticulture, Forestry and Biotechnology 27(3): 18-22. ISSN 3045-1876

36. Buga E. A., Lăpădat A.S., Toplicean I.M., **Datcu A.D.** 2023. Preliminary quality/price analysis for some green and black tea types. Journal of Agroalimentary Processes and Technologies, 29(3): 168-172

37. Drăgucian V.D., Toplicean I.M., Miculescu A., **Datcu A.D.** 2023. Studies regarding the physiological behavior of *Juglans regia* and *Robinia pseudoacacia* in urban environment. Annals of West University of Timisoara, ser. Biology, 26(2): 115-122.

38. Ianuș R.D., Toplicean I.M., Pahomi A., **Datcu A.D**. 2024. Preliminary quality/price analysis for some Betula products. Journal of Agroalimentary Processes and Technologies 2024, 30 (2), 86-92. https://doi.org/10.59463/JAPT.2024.2.01

39. Ianuș R-D., Toplicean I.-M., **Datcu A.-D.** 2024. Quantitative and qualitative analysing methods of various bioactive compounds from different birch products – a review. Annals of West University of Timisoara, ser. Biology, 27, in press. ISSN on-line: 2285-7044

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

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

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

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

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

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

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

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

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

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

50. Cimponeriu A.-D., **Datcu A.-D**. 2021. Bioactive compounds from *Zingiber officinale* and their biological activity. BIOSTUDENT 4(2): 201-210.

51. Cocheci C.-M., **Datcu A.-D**. 2021. The particularities of CAM plants metabolism and the potential for bioenergy production. BIOSTUDENT 4(2): 211-218.

52. Crasuc A., **Datcu A.-D.** 2022. Aspects regarding main biological active compounds in *Panax gineseng* and their effects. BIOSTUDENT 5(1): 31-40.

53. Riza A.S., **Datcu A.-D.** 2022. *Hedera helix* characterization in relation with some urban habitats. BIOSTUDENT 5(1): 41-58.

54. Almășan A.L., **Datcu A.-D.** 2022. Aspects regarding biostimulants history, apllication and effects. BIOSTUDENT 5(2): 59-72.

55. Buga E.A., Toplicean I.-M., **Datcu A.-D**. 2023. *Camellia sinensis* characterization and biological active compounds. BIOSTUDENT 6(2):191-196.

56. Sim E., **Datcu A.-D.** *Phytolacca americana* – morphoanatomical description, biological active compounds, benefits and the influence on the environment. BIOSTUDENT (7) – in press

57. Sucioni L.-M., Toplicean I.-M., **Datcu A.-D**. *Brassica rapa* – description, crop manangement and utilities. BIOSTUDENT (7) – in press