

Activitate științifică

a) Articole în reviste ISI – Web of Science

A1: Alexuta, Daniel; Balas, Valentina E.; Balas, Marius M.

On the Three-Tank Aquaponic Configuration.

International Journal of Computers Communications & Control (IJCCC), vol. 20, nr. 2, 2025.

DOI: 10.15837/ijccc.2025.2.7032

WOS:001455084900004

IF = 1,9 (Q3)

A2: Alexuta, Daniel.

Urban green areas using sustainable aquaponics.

Scientific Papers. Series B. Horticulture, vol. 66(2), 2022.

WOS:000914703800043

IF = 0,4 (Q4)

A3: Popa, Mihaela; Alexuta, Daniel; Balas, Valentina E.

Fuzzy-interpolative control of temperatures for the intelligent rooftop greenhouse.

Journal of Intelligent & Fuzzy Systems, vol. 43, issue 2, 2022.

DOI: 10.3233/JIFS-219280

WOS:000811435100012

IF = 1,0 (Q4)

b) Articole ISI – Proceedings

A4: Petcut-Lasc, A. A.; Balas, Valentina E.; Petcut, Florin M.; Rotar, R.; Alexuta, Daniel.

Performance Evaluation of a Residential Photovoltaic System in Matlab Simulink.

2025 IEEE 23rd World Symposium on Applied Machine Intelligence and Informatics (SAMI).

DOI: 10.1109/SAMI63904.2025.10883312

c) Articole în volume / conferințe indexate BDI / Scopus / Springer / IEEE

A5: Alexuta, Daniel; Balas, Valentina E.; Balas, Marius M.

A Systematic Review of Aquaponics: Advances in Automation and Sustainable Agriculture.

In CS & IT Conference Proceedings (Vol. 14, No. 25).

DOI: <https://doi.org/10.5121/csit.2024.142503>

A6: Popa, Mihaela; Alexuta, Daniel; Balas, Marius M.; Balas, Valentina E.

Current Trends in Research on Temperature Control in Rooftop Greenhouse.

18th International Conference on Engineering of Modern Systems, 2025, Romania,

DOI: 10.1109/EMES65692.2025.11045579

A7: Balas, Marius M.; Popa, Mihaela; Muller, Emanuela V.; Alexuta, Daniel.

Intelligent Roof-Top Greenhouse Building.

International Workshop on Soft Computing Applications, Advances in Intelligent Systems and Computing (AISC, volume 1222).

DOI: 10.1007/978-3-030-52190-5_5

A8: Alexuta, Daniel; Balas, Marius M.

The Study of Water Parameters in an Aquaponic System.

XIV International Conference on Industrial Engineering and Environmental Protection IIZS 2023, Technical Faculty “Mihajlo Pupin” Zrenjanin, October 05-06, 2023, Zrenjanin, Serbia.

<http://www.tfzr.uns.ac.rs/iizs/files/IIZS%202023%20Proceedings%20Final.pdf>

A9: Alexuta, Daniel; Balas Marius M.

Aquaponics as an innovative technology for sustainability and environmental protection: challenges and industrial solutions.

XIV International Conference on Industrial Engineering and Environmental Protection IIZS 2024, Technical Faculty “Mihajlo Pupin” Zrenjanin, October 03 – 04, 2024, Zrenjanin, Serbia,

<http://www.tfzr.uns.ac.rs/iizs/files/IIZS2%202024%20Proceedings.pdf>.

A10: Alexuta, Daniel; Balas, Valentina E.; Balas, Marius M.

Recuperarea energiei electrice consumate într-un sistem acvaponic, cu ajutorul principiului de flotabilitate.

The 8th edition of International Symposium “Brainstorming in Agora Students’ Scientific Circle” BACStud 2022, Universitatea Agora din Municipiul Oradea.

ISBN:978-973-1807-63-8

A11: Alexuta, Daniel; Balas, Valentina E.; Balas, Marius M.

Aquaponics, pH, and Other Parameters in Aquaponics: A Comprehensive Exploration.

The 9th edition of International Symposium “Brainstorming in Agora Students’ Scientific Circle” BACStud 2023, Universitatea Agora din Municipiul Oradea.

ISBN:978-973-1807-63-8

A12: Alexuta, Daniel; Balas, Valentina E.; Balas, Marius M.

Modelarea matematică a parametrilor dintr-o seră acvaponică.

The 10th edition of International Symposium “Brainstorming in Agora Students’ Scientific Circle” BACStud 2024, Universitatea Agora din Municipiul Oradea.

ISBN:978-973-1807-63-8