

# Alexandru-Polifron CHIRITA

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## Other IDs

ResearcherID: JHU-1647-2023 (<https://www.webofscience.com/wos/author/record/JHU-1647-2023>)

## Works (15 of 15)

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### **Multi-Criteria Optimization of a Laboratory Top-Lit Updraft Gasifier in Order to Reduce Greenhouse Gases and Particulate Matter Emissions**

*Processes*

2024-05-27 | journal-article

DOI: 10.3390/pr12061103

Source:Crossref

### **Leveraging Additive Manufacturing and Reverse Engineering for Circular Economy-Driven Remanufacturing of Hydraulic Drive System Components**

*Applied Sciences*

2023-11 | journal-article

DOI: 10.3390/app132212200

Source:Multidisciplinary Digital Publishing Institute

### **Neural-Network-Based Time Control for Microwave Oven Heating of Food Products Distributed by a Solar-Powered Vending Machine with Energy Management Considerations**

*Energies*

2023-10 | journal-article

DOI: 10.3390/en16196953

Source:Multidisciplinary Digital Publishing Institute

### **AGRICULTURAL PLATFORM EQUIPPED WITH A HYDROSTATIC TRANSMISSION CAPABLE OF CONTINUOUSLY ADJUSTABLE TRAVEL VELOCITY AND NONLINEAR DISTURBANCE COMPENSATION CAPABILITIES**

*INMATEH Agricultural Engineering*

2023-04-30 | journal-article

DOI: 10.35633/inmateh-69-40

Part of ISSN: 2068-2239

Part of ISSN: 2068-4215

Source:Alexandru-Polifron CHIRITA

**OPTIMIZING AND INTEGRATING  
ELECTROMECHANICAL ACTUATORS IN  
AGRICULTURAL EXCAVATOR BOOMS FOR ENHANCED  
EFFICIENCY AND BATTERY LONGEVITY**

*INMATEH - Agricultural Engineering*

2023 | journal-article

DOI: 10.35633/INMATEH-71-29

WOSUID: WOS:001126129900003

**Source:**Web of Science Researcher Profile Sync

**ENERGY EFFICIENT DRIVE SYSTEM WITH DIGITAL  
HYDRAULIC CYLINDER FOR CONSTRUCTION AND  
AGRICULTURAL MACHINERY**

*INMATEH Agricultural Engineering*

2022-12-31 | journal-article

DOI: 10.35633/inmateh-68-01

*Part of ISSN: 2068-2239*

*Part of ISSN: 2068-4215*

**Source:**Alexandru-Polifron CHIRITA

**Modern Techniques for Remanufacturing Hydraulic  
Equipment in the Context of Circular Economy and  
Energy Efficiency**

*MATEC Web of Conferences*

2022 | journal-article

DOI: 10.1051/mateconf/202236801009

**Source:**Crossref

**Optimization of Manufacturing Processes by Reducing  
the Costs of Tools and Equipment on Hydraulically  
Operated High-Pressure Technological Lines**

*MATEC Web of Conferences*

2022 | journal-article

DOI: 10.1051/mateconf/202236801008

**Source:**Crossref

**RESEARCH ON SHREDDED BIOMASS DRYING IN A  
VIBRATING FLUIDIZED BED DRYER**

*INMATEH Agricultural Engineering*

2021-12-30 | journal-article

DOI: 10.35633/inmateh-65-01

*Part of ISSN: 2068-2239*

*Part of ISSN: 2068-4215*

**Source:**Alexandru-Polifron CHIRITA

**REMOTE MONITORING OF ENERGY PRODUCTION AND EFFICIENCY OF AN OFF-GRIDD PHOTOVOLTAIC SYSTEM**

*INMATEH Agricultural Engineering*

2021-08-31 | journal-article

DOI: 10.35633/inmateh-64-12

Part of ISSN: 2068-2239

Part of ISSN: 2068-4215

Source:Alexandru-Polifron CHIRITA

**Determining the Optimal Printing Conditions for the Production of a Fertigation Pump Prototype with FDM Technology**

*Materiale Plastice*

2021-07-05 | journal-article

DOI: 10.37358/mp.21.2.5485

Part of ISSN: 0025-5289

Part of ISSN: 2668-8220

Source:Alexandru-Polifron CHIRITA

**DYNAMICS OF PROPORTIONAL SPEED CONTROL VERSUS SERVO SPEED CONTROL OF A HOSE / CABLE SPOOLING DEVICE FOR DRUM**

*INMATEH - Agricultural Engineering*

2020 | journal-article

DOI: 10.35633/INMATEH-62-40

WOSUID: WOS:000607172200041

Source:Web of Science Researcher Profile Sync

**Aspects Regarding the Use of 3D Printing Technology and Composite Materials for Testing and Manufacturing Vertical Axis Wind Turbines**

*Materiale Plastice*

2019-12-30 | journal-article

DOI: 10.37358/mp.19.4.5283

Part of ISSN: 0025-5289

Part of ISSN: 2668-8220

Source:Alexandru-Polifron CHIRITA

**Rapid Prototyping of the Injection Device Piston Used  
for Fertigation Using 3D Printing Technology**

*Materiale Plastice*

2019-12-30 | journal-article

DOI: 10.37358/mp.19.4.5272

Part of ISSN: 0025-5289

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Source: Alexandru-Polifron CHIRITA

**Rapid Prototyping of the Injection Device Piston Used  
for Fertigation Using 3D Printing Technology**

*Materiale Plastice*

2019 | journal-article

WOSUID: WOS:000509920700021

Source: Web of Science Researcher Profile Sync

**Peer review (2)**

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- review activity for **Processes. (3)**
- review activity for **Sustainability. (2)**

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