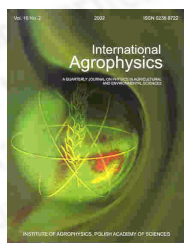




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Entropy and dynamics of soil-plant system

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abstract We used information theory methods to analyze the process of primary soil formation in a model soil-plant system with the permanent cultivation of plants under controlled conditions. When studying the dynamics of the diversity of the microbiotic complex, the organic matter formed and the distribution of macroand microelements in plant organs, the entropy of information source was used as their quantitative characteristic. We found that both production and expenditure of entropy simultaneously occurred in the model soil-plant system.

keywords entropy, dynamics, diversity, soil-plant system

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