

### Review Form 3

Journal Name:	<a href="#">Journal of Experimental Agriculture International</a>
Manuscript Number:	Ms_JEAI_129320
Title of the Manuscript:	<b>A Review on Hydroponics and Vertical Farming for Vegetable Cultivation: Innovations and Challenges</b>
Type of the Article	<b>Review</b>

#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	This manuscript is of significant importance to the scientific community as it provides a comprehensive overview of hydroponics and vertical farming, two groundbreaking technologies reshaping sustainable agriculture. By analyzing key principles, challenges, and recent innovations like AI-driven monitoring and advanced LED lighting, it offers valuable insights into optimizing these systems for urban and peri-urban environments. The paper not only underscores the environmental and economic benefits of these approaches but also addresses critical hurdles, aiding researchers and policymakers in overcoming barriers to widespread adoption. Such a detailed review contributes to advancing knowledge in controlled-environment agriculture and supports global efforts toward achieving food security and sustainable urbanization.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Yes</b>	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	<b>Yes</b>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	I recommend to answer and to these questions: a) Could you specify the type of nutritive solutions and their compositions used in the different hydroponic and vertical farming systems discussed? b) Additionally, could you provide insights into the costs associated with the installation of these systems? c) From a nutritional perspective, what are the differences between products grown using these systems and traditional ones? d) Could you specify the attitudes of consumers toward fruits and vegetables grown using these systems?	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	The references can be improved. I recommend the following reference: Țălu, Ș. (2024). Insights on Hydroponic Systems: Understanding Consumer Attitudes in the Cultivation of Hydroponically Grown Fruits and Vegetables. HIDRAULICA, 1, 56-67.	

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<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The manuscript is correct written, but it can be improved.</p>	
<p><b><u>Optional/General</u></b> comments</p>	<p>The manuscript needs a minor revision.</p> <ul style="list-style-type: none"> <li>e) Could you specify the type of nutritive solutions and their compositions used in the different hydroponic and vertical farming systems discussed?</li> <li>f) Additionally, could you provide insights into the costs associated with the installation of these systems?</li> <li>g) From a nutritional perspective, what are the differences between products grown using these systems and traditional ones?</li> <li>h) Could you specify the attitudes of consumers toward fruits and vegetables grown using these systems?</li> </ul>	

**PART 2:**

	<p><b><u>Reviewer's comment</u></b></p>	<p><b><u>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</u></b></p>
<p><b><u>Are there ethical issues in this manuscript?</u></b></p>	<p><b><u>(If yes, Kindly please write down the ethical issues here in details)</u></b></p>	

**Reviewer Details:**

<p><b>Name:</b></p>	<p><b>Stefan Talu</b></p>
<p><b>Department, University &amp; Country</b></p>	<p><b>The Technical University of Cluj-Napoca, Romania</b></p>