

Special Issue

Economic Pathways and Consumer Dynamics in Sustainable Controlled-Environment Agriculture (CEA)

Message from the Guest Editor

The advancement of controlled-environment agriculture (CEA) presents new economic opportunities and challenges for sustainable food production. Economic analyses are essential for assessing innovations in CEA, particularly their impact on resource efficiency and sustainability. Consumer preferences also play a vital role in market development and adoption of CEA technologies. This Special Issue examines how business models, market dynamics, and consumer behavior shape the growth and scalability of CEA, serving as a platform for researchers, policymakers, and industry stakeholders to explore sustainable solutions. Key topics include: 1. Economic modeling of CEA—cost-benefit analyses and investment strategies. 2. Consumer behavior and market dynamics—preferences shaping CEA markets. 3. Technology-driven strategies—the role of AI and automation in production. 4. Sustainable supply chains—value chain innovations and policy interventions. 5. Circular economy and resource efficiency—business models that optimize inputs. We invite original research and case studies on the intersection of economics, consumer behavior, and technology in CEA.

Guest Editor

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Deadline for manuscript submissions

31 August 2025



Agriculture

an Open Access Journal
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Impact Factor 3.6
CiteScore 6.3



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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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Prof. Dr. Les Copeland

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