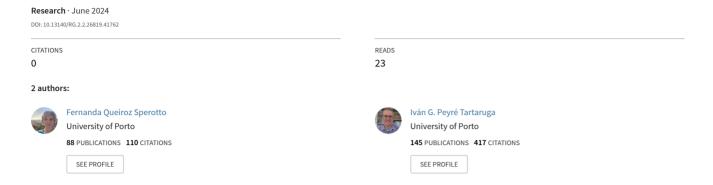
Exploring the rise of Green Innovation in Agriculture: a bibliometric analysis and scientific mapping



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Building Resilient and Sustainable Territories

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OP. 160 EXPLORING THE RISE OF GREEN INNOVATION IN AGRICULTURE: A BIBIOMETRIC ANALYSIS AND SCIENTIFIC MAPPING

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Abstract: The concern about the impacts of climate change has intensified enormously. Although these effects are noticeable in various contexts, the present study aims to analyse how the scientific literature has addressed the role of green innovations in agriculture. For this purpose, we conducted a bibliometric analysis using data from the Scopus database. The bibliometric survey resulted in the identification of 569 articles published between 1976 and 2024. To examine the selected sample, we carried out scientific mapping to understand the structure and evolution of the topic over time. The results confirmed the recent increase in scientific production on the subject. In particular, over the past three years, the main topics auiding scientific research on green innovations in the context of agriculture have been grouped into four central clusters: (1) climate change, environmental performance, and bioenergy; (2) sustainable development, circular economy, and biotechnology; (3) precision agriculture, technology, and digitisation; and (4) sustainable agriculture, sustainability-oriented innovations, and the environment. The geography of scientific production on green innovations in agriculture also revealed exciting aspects such as the strong participation of Chinese and Italian researchers, the involvement of 1,800 institutions in the production of knowledge about green innovations and agriculture, and the formation of an intense network of scientific collaboration, with groups of diverse countries and the Netherlands being the nations with the most collaborations with other countries. The results of this exploratory study also point to new research directions, such as identifying the agricultural subsectors most favoured by green innovations.

Keywords: Eco-innovation; Sustainability; Scientific Mapping; Climate Change









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