

## Special Issue

# Photovoltaic Thermal Systems for Sustainable Energy Production

### Message from the Guest Editors

Solar radiation is the primary source of all types of renewable energy sources, and photovoltaic (PV) technology is one of the most common methods of directly converting solar radiation into electricity. Photovoltaic/thermal (PV/T) panels are innovative cogeneration systems. Effective cooling of the PV back is still a challenge that improves the electrical and thermal performance of the PV/T system. This Special Issue aims to gather and inspire innovative ideas and recent developments in the area of photovoltaic thermal systems, which can also serve as a reference for future research directions. The topics of this Special Issue focus on original research and review studies, including, but not limited to, the following fields: New design, structure, and optimization of PV/T; Building integrated solar photovoltaic system; Numerical and experimental modeling of PV/T; Passive and active cooling of PV panels; Economic and cost assessment of PV/T; Changing consumption and production patterns by using PV/T; New trends in capitalizing solar energy; Sustainable energy preservation and regeneration

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### Guest Editors

Dr. Sebastian Hudisteanu  
Dr. Nelu-Cristian Cherecheș  
Dr. Florin Emilian Turcanu

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### Deadline for manuscript submissions

31 January 2027



## Sustainability

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## Editor-in-Chief

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