

## Special Issue

# Optimizing Green Building Design with Passive and Climate-Responsive Strategies

### Message from the Guest Editors

Optimizing green building design through passive and climate-responsive strategies is vital to advancing sustainable architecture. Passive design leverages natural elements—solar orientation, thermal mass, ventilation, insulation, and adaptive shading—to cut energy use and improve occupant comfort. Climate-responsive architecture adapts to local conditions, ensuring resilience and efficiency across diverse environments. Advances in materials and computational modeling continue to drive innovation and more sustainable urban development. This Special Issue invites original research, case studies, and interdisciplinary perspectives on passive and climate-responsive design. Our aim is to foster collaboration, inform policy, and provide practical solutions for resilient, energy-efficient built environments that meet today's and future sustainability challenges. This Special Issue will cover, but is not limited to:

- Climate-responsive innovations.
- Material science and construction methods.
- The integration of technology.
- Policy and urban impacts.

### Guest Editors

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### Deadline for manuscript submissions

28 February 2026



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