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Section

Building Energy, Physics, Environment, and Systems



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Section Information

“Building Energy, Physics, Environment, and Systems” is a popular Section of the journal “Buildings”, with the largest number of published articles. The essential function of buildings is to create healthy and comfortable living environments through the physical processes of exchanging energy or air between indoor and outdoor environments. This Section covers a wide range of topics that deal with the energy, physics, environments, and systems of buildings, aiming to communicate emerging issues, advanced technologies, new findings, and scientific theories that are related to multiple issues of buildings, such as health, energy, carbon emissions, etc. Cross-cutting and multidisciplinary research is encouraged with the support of a broad range of methodological and technical approaches, including numerical, experimental, observational, analytical, and management/policy studies.

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Keywords

Green buildings.

- Low-carbon buildings.
- Renewable energy sources in buildings.
- Building energy performance and simulation.
- Indoor and outdoor built environments.
- Health and thermal comfort.
- Infection and disease control.
- Occupant comfort and wellbeing evaluation.
- Human habitats and ergonomics.
- Integrated built environmental system designs.
- Urban physics.
- Heating and cooling.
- Building envelopes and structures.
- Green and low-carbon building materials.
- Heat, mass, and moisture transfer.
- Electrical systems and power supply.