ENERGY AND BUILDINGS
An international journal devoted to investigations of energy use and efficiency in buildings

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DESCRIPTION

*Energy and Buildings* is an international journal publishing articles with explicit links to energy use in buildings. The aim is to present new research results, and new proven practice aimed at reducing the energy needs of a building and improving indoor environment quality. Energy and Buildings considers and publishes articles considerably advancing Building Science. Preference is given to practical and experimental research articles reporting considerable innovations. Articles reporting advances in theoretical and simulation methods are welcome once results are fully validated using appropriate experimental data, and so are the articles reporting application of numerical or theoretical methods for the analysis of new technology and materials and innovative designs.

Topics covered include:

Energy demands and consumption in existing and future buildings - prediction and validation
Indoor environment quality, including health and thermal comfort vis-à-vis energy
Natural, mechanical and mixed ventilation
Air distribution in buildings
Application of solar and other renewable energy sources in buildings
Energy balances in building complexes (residential, commercial, industrial, public and other buildings)
Energy efficiency improvement measures of HVAC&R and other technical systems in residential, commercial, public and industrial buildings, and semi open built spaces
Heat recovery systems in buildings
Buildings and district heating and cooling
Energy conservation in built environment
Energy efficient buildings
Building physics
Energy sustainability, resilience and climate adaptability of buildings
Evaluation and control of indoor thermal and lighting systems
Building’s total performance and intelligent buildings
Links between architectural design, mechanical and lighting systems
New materials in buildings and their impact on energy demands
External and internal design conditions for energy efficient buildings
Building envelope materials and structure energy performance
Thermal energy storage and thermally active building systems - TABS
Energy performance of buildings and modeling predictive control
Zero CO2 emission - zero energy and energy plus buildings and their smart grid harmonized operation
Residential/municipal energy refurbishment and renovation
Life cycle energy efficiency of buildings and embodied energy
Architectural structure - construction
Energy related aspects of buildings after catastrophic events

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