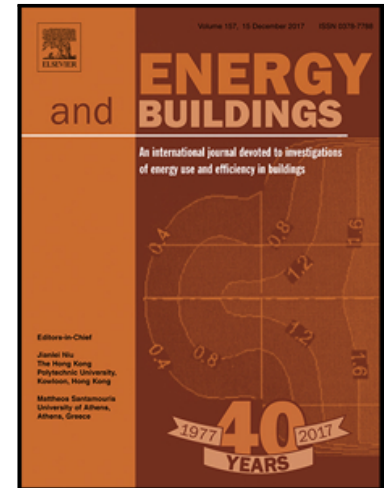


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Modeling and implementing human-based energy retrofits in a green building in desert climate

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Highlights

- A framework is proposed to guide human-based energy retrofits in buildings
- It includes data collection on occupants, buildings systems, and the urban context
- Building energy modeling is used to assess different operation-focused strategies
- Strategies are implemented in a low-energy office building in Abu Dhabi, UAE
- Building energy is reduced by 24.4% at no capital cost nor occupancy discomfort

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