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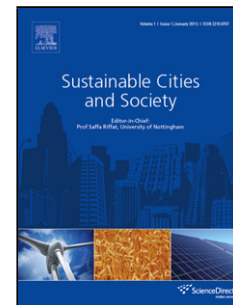
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An innovative PCM system for thermal comfort improvement and energy demand reduction in building under different climate conditions

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Highlights

- The best melting point of first and second layer of PCM is close to average room air temperature.
- Double layer PCM system has considerable impact on indoor thermal comfort in dry and mild/semi-arid climates.
- New PCM system reduces heating energy demand by 17.5% in dry climate and cooling energy demand by 12.3% in cold climate.

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