

Miércoles, 30 Abril de 2025

12:00

Sala de Grados  
Facultad de Ciencias

## Barocaloric materials for heating and cooling



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Half of the world's CO<sub>2</sub> emissions can be attributed to heating and cooling. This is primarily due to heating with natural gas and cooling with compression of greenhouse gases, which are neither environmentally friendly nor energy efficient. Therefore there is great interest in developing alternative technologies that can replace these gas-based environmentally damaging systems. Barocaloric materials are at the core of novel solid-state heat-pump technologies. During this talk I will describe our work on mechanically responsive barocaloric materials, and present our recent advances on barocaloric systems for heating and cooling applications.

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