

## Xavier Moya

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<b>Conferenciante</b>	Xavier Moya
<b>Posición / afiliación</b>	Department of Materials Science, University of Cambridge; Barocal Ltd
<b>Título de la charla</b>	Barocaloric materials and systems for sustainable heating and cooling applications

### Resumen

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. There is great interest in developing energy-efficient solid-state heat pumps that can replace these environmentally damaging technologies. Barocaloric materials are at the core of novel solid-state heat-pump technologies. During this talk I will describe our work on barocaloric materials and systems driven using pressure for low-carbon heating and cooling applications.