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Invited Speaker

Redox molecular junctions and thermal effects

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Abstract:

Redox molecular junctions are molecular conduction junctions that involve more than one oxidation state of the molecular bridge. This property is derived from the ability of the molecule to transiently localize transmitting electrons. I will discuss the implications of this behavior in a system open to electron flux and their manifestations with regards to the nonlinear transport properties, energy conversion, switching and thermal conduction.

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