

MRSEC SEMINAR SERIES

“Nanostructured Thermoelectric Materials for Waste Heat Recovery”



The rapid development of thermoelectric materials in the past decade has provided a possibility of directly converting waste heat back to electricity based on the Seebeck effect. In the past four years, we have developed a transformative approach to pioneered low cost and scalable solution-phase growth methods to mass produce high performance thermoelectric nanowires and nanowire heterostructures to match the physical and economic magnitudes of energy use and economical entertainment in manufacture/recycling. These nanostructures provide unique platforms to study the effects of quantum confinement and energy filtering in the decoupling of electrical and thermal transport.

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2:00 - 3:00 p.m.

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