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Nanoscale Energy Transport and Conversion. A Parallel Treatment of Electrons, Molecules, Phonons, and Photons Gang Chen Massachusetts Institute of Technology. OXFORD. UNIVERSITY PRESS. 2005. Contents. Foreword, vii Introduction, 3 1 There Is Plenty of Room at the Bottom, 4 2 Classical Definition of Temperature and Heat, 9 3 Macroscopic Theory of Heat Transfer, 9 1.3.1 Conduction, 9 1.3.2 Convection, 11 1.3.3 Radiation, 13 1.3.4 Energy Balance, 16 1.3.5 Local Equilibrium, 17 1.3.6 Scaling ...

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energy-efficient circuits and energy-conversion systems. This is also a rich domain for fundamental discoveries at the intersection of electron, lattice (phonon), and optical (photon) interactions. This review presents recent progress in understanding and manipulation of energy dissipation and transport in nanoscale solid-state structures.

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## **Nanoscale Energy Transport and Conversion Laboratory ...**

Her PhD dissertation title was "Nanoscale energy transport in photovoltaic and thermoelectric nanomaterials". While at Purdue Kelly was a recipient of the Winkelman Fellowship, Best Student Presentation Award (1st Place) at the Nanostructured Thin Films Conference, a conference within the 2012 SPIE Optics and Photonics Conference, Cordier ...

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Department of Mechanical Engineering at the University of Utah. The Utah Nano-Energy group focuses on research and education of nanoscale energy transport and conversion processes. Our research interests include fundamental physics of thermal, electrical, and photonic energy interactions at nanoscales, nanostructure-based energy applications, nanoscale thermophysical instrumentations, and tip-based ...

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