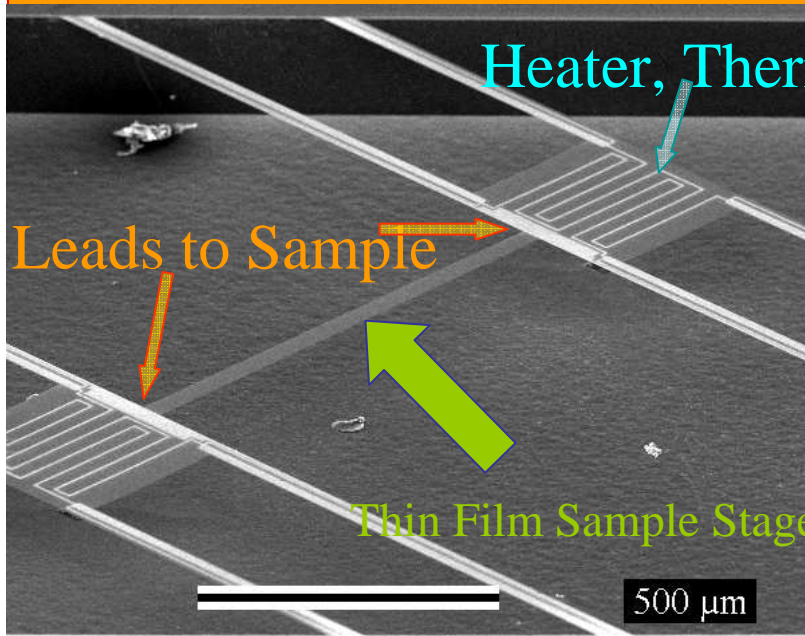


Exploring Improved Petroleum Utilization Via Nanoscale Thermal Engineering of Thermoelectric Materials

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Micromachined Thermal Platforms allow direct measurement of electrical conductivity, thermal conductivity, and thermopower (Seebeck coefficient) for complete determination of thermoelectric figure-of-merit on a single deposited thin film sample.

Allows investigation of thermoelectric properties of amorphous semiconductor alloy films, where enhanced scattering could reveal breakthrough performance

