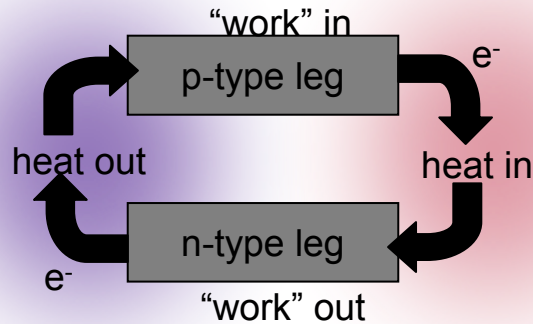


Nanostructured Thermoelectric Materials

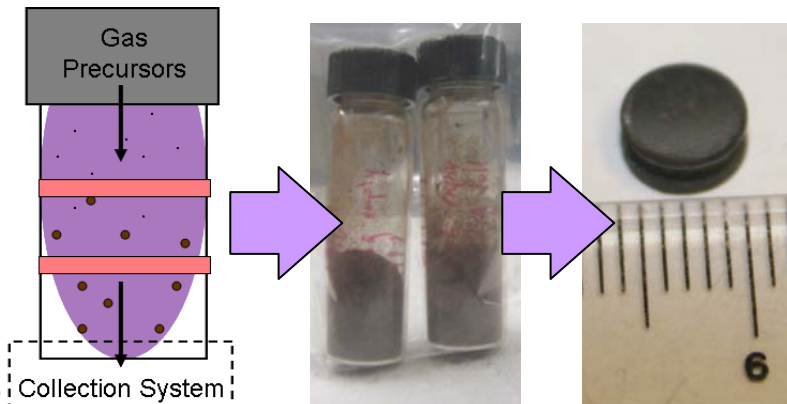
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$$ZT = \frac{S^2 \sigma}{k} T$$

Nanostructuring shows potential to increase efficiency by reducing thermal conductivity, k , while improving the power factor, $S^2\sigma$.

Nanocrystals produced in a non-thermal plasma are hot pressed into a disk of nanograined material.



Thermal Conductivity for Silicon Nanograined Samples

