

Nano-thermoelectrics

Abstract

- 5 The present invention relates to processes for producing nanowires and nanotubes by treating a fiber comprising at least one support material and at least one thermoelectrically active material or a precursor compound of a thermoelectrically active material, to a nanowire comprising at least one thermoelectrically active material and having a diameter of ≤ 200 nm and a length
- 10 of ≥ 1 mm, to nanotubes comprising at least one thermoelectrically active material and having a diameter of ≤ 200 nm, a wall thickness of ≤ 30 nm and a length of ≥ 1 mm, and to the use of the nanowires or nanotubes for thermoelectric heating, for electricity generation, in sensors or for temperature control.