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Stellingen

Behorende bij het proefschrift:

Applications of High-Aspect-Ratio Gold Nanowires Fabricated by Nanoskiving

Zhiyuan Zhao

- The development of one dimensional nanostructures that possess a high surface-to-volume ratio and a large tolerance for mechanical deformations has become the focus of intensive research owing to unique applications in mesoscopic physics and fabrication of nanoscale devices.
 - P. Yang, et.al. Adv. Mater. 2003, 15, 353-389.
- 2. The statement by Whitesides that "there will be revolutionary nanotechnologies, based on fundamentally new science, with products that we cannot presently imagine" captures the motive to explore of thousands of researchers.
 - G. M. Whitesides, Small, 2005, 1, 172-179.
- 3. Simplicity, low cost, and universality is essential to modern (and future) science and technology.
- 4. The sectioned gold nanowires look like (not taste) flexible spaghetti, which is a property unique to nano-structured gold.
- 5. It is amazing that electrons can pass through insulators at low voltage; this is the process of tunneling at the nanoscale.
- 6. The transfer of nanostructures is important and necessary for nanoscience; it is worth the effort to explore a perfect method.
- 7. Nanowires that are positioned in the center of a microfluidic channel truly exhibit the properties of a 3D nanostructure.
- 8. 尽信书不如无书

If you believe everything you read, better not read.