



University of Groningen

Applications of high-aspect-ratio gold nanowires fabricated by nanoskiving Zhao, Zhiyuan

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version Publisher's PDF, also known as Version of record

Publication date: 2016

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

Zhao, Z. (2016). Applications of high-aspect-ratio gold nanowires fabricated by nanoskiving. University of Groningen.

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: https://www.rug.nl/library/open-access/self-archiving-pure/taverneamendment.

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): http://www.rug.nl/research/portal. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Download date: 05-06-2022

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.