

## **Synthesis of Very Small Diameter Silica Nanofibers**

### **Disclosure Number**

201303139

### **Technology Summary**

The present invention includes a method of growing silica nanofibers of very small diameter (~ 30 nm) without employing any conventional techniques such as electro-spinning or glass drawing. Compared to the state of the art technologies, this technique is less energy intensive, inexpensive, and does not use any toxic material or sophisticated instrument. Silica nanofibers made by the invention can be employed in sundry applications such as, for example, aerospace, impact protective materials, lightweight materials, filtration and purification, biomedical, tissue engineering, and textile industries.

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