

**Scalable Spark Ablation Synthesis of Nanoparticles  
Fundamental Considerations and Application in Textile Nanofinishing**

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# Propositions

To accompany a dissertation on the

## Scalable Spark Ablation Synthesis of Nanoparticles:

### Fundamental Considerations and Application in Textile Nanofinishing

by

**Jicheng FENG**

1. Things that are completely new will never be fully accepted in scientific publications as they only add confusion. For example, people would not accept the notion that ghosts exist even if there were compelling evidence for that.
2. In the initial stage of aerosol production processes, singlets can be deposited onto substrates. Particle growth on the substrate by adding singlets leads to remarkable uniformity in size.
3. In spark ablation, large metallic primary particles bound together in agglomerates indicate high purity of the particulate material.
4. Despite the tremendous interest in very small particles (<5 nm) of high purity, their stabilization has been a major challenge.
5. The significance generally attributed to short-term journal impact factors motivates work on popular fashionable topics and is counterproductive with respect to creation of sustainable scientific value.
6. To cycle up a steep hillside one needs to accumulate strength beforehand. This is a similar process to planning one's work.
7. Democracy is forbidden in science.
8. Doing science is similar to the Chinese martial arts (Kungfu). Alongside learning and practice, both are capable of creating physiological or psychological disorder.

The contention is that these propositions lend themselves to opposition and are defensible, and have been approved as such by promoter Prof. A. Schmidt-Ott and co-promoter Dr. G. Biskos.

