Synthesis of Ultra-Thin Nanoparticles

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Status:
Seeking R&D and/or licensing partner
Patent Pending

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Synthesis of Ultra-Thin Nanoparticles

- Method of producing variety of ultra-thin nanoparticle shapes
  - Rice
  - Whiskers
  - Plates
  - Tubes
  - Flowers
- Utilizes selective heating synthesis of oleate complex and ferrite moiety
- Produced nanomaterials have narrow size distributions, ultra-thin, and are magnetic
- Thickness of nanoparticles is between 1 and 4 nm

Advantages

- Straightforward, easy production process
- Minor adjustments needed to change nanoparticle shape
- Thickness of particles allows for easy coating and may prove useful for integration into other materials
- Ability to be surface functionalized

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