

New spray method suitable for aligning nanoparticles

- Spraying system aligning several types of nanowires
- Straightforward, fast and cost effective
- Can be applied to layer by layer coating

KEYWORDS

Nanowire alignment
Spray
Coating

PATENT

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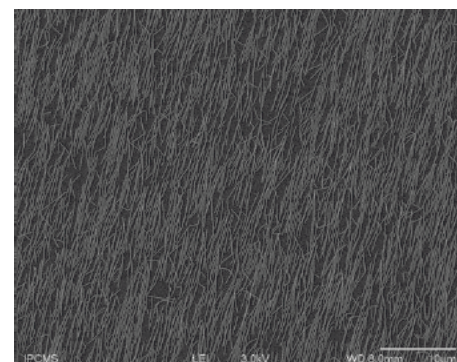
INVENTOR

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TECHNOLOGY

- Spraying system aligning nanoparticles
- Suitable for particles with aspect ratio >10
- Alignment parameter order up to 0.92



Aligned Ag nanowires

APPLICATIONS

- Thin film coating by several aligned nanoparticles
- Suitable for glasses, flat screens, metallic substrates
- May confer excellent magnetic properties

INNOVATION ADVANTAGES

- Simple and ready to use method
- Can be applied to large substrate areas
- Better control of the NW size (no growth on the substrate)

DEVELOPMENT STATUS

- Studies on nanowires (Ag, Au, ZnO, cellulose microfibers, carbon nanotubes)
- Suitable substrates: glass, silicium, plastics (PMMA), metals (Al, Au, steel)

Partnership : Seeking partners to participate in a co-conception programme

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