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Research Interests

- Nanoparticles, nanotubes, nanowires and nanobelts: rational synthesis, structural characterization, properties measurements, device fabrication, and potential applications
- Functional nanomaterials with potential applications in energy, national security and biology as photocatalysts, phosphors, detectors, markers, and sensors.

Recent Publications

Z.W. Pan, S.M. Mahurin, S. Dai, and D.H. Lowndes, "Nanowire array gratings with ZnO combs", *Nano Letters* **5**, 723 (2005).

Z.W. Pan, S. Dai, C.M. Rouleau, and D.H. Lowndes, "Germanium-catalyzed growth of zinc oxide nanowires: a semiconductor catalyst for nanowire synthesis", *Angew. Chem. Int. Ed. Engl.* **44**, 274 (2005).

Z.R. Dai, Z.W. Pan and Z.L. Wang, "Novel nanostructures of functional oxides synthesized by thermal evaporation", *Adv. Funct. Mater.* **13**, 9 (2003).

Z.W. Pan, Z.R. Dai, Chris Ma and Z.L. Wang, "Molten gallium as a catalyst for the large-scale growth of highly aligned silica nanowires", *J. Am. Chem. Soc.* **124**, 1817 (2002).

Z.W. Pan, Z.R. Dai and Z.L. Wang, "Nanobelts of semiconducting oxides", *Science* **291**, 1947 (2001).

Z.W. Pan, S.S. Xie, B.H. Chang, C.Y. Wang, L. Lu, W. Liu, W.Y. Zhou, W.Z. Li and L.X. Qian, "Very long carbon nanotubes", *Nature* **394**, 631 (1998).