

An Integrated Science Perspective on Driving Innovation with Materials at the Nanoscale

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DuPont is a science-based products and services company with a long-standing commitment to materials-based innovation. Nanostructure can dramatically influence the fundamental properties of materials including thermal, mechanical, electrical, optical, and chemical. The availability of modern tools for synthesis, measurement, characterization and modeling now permits the deliberate design of novel nano-structured materials. Such materials can deliver enhanced performance in existing applications, and can enable new applications and new business opportunities. DuPont is exploring how nano-scale science and engineering can add value in a number of applications, such as coatings, polishing, polymer nanocomposites, printable electronics, displays, sensors, membranes and functional surfaces. In these explorations, DuPont is guided by the belief that nano-scale science and engineering is not an end in itself, but enriches the options available to materials scientists to meet current and future market needs. DuPont is also committed to ensuring that any new nanomaterials are brought to market in conformance with its rigorous safety, health and environmental principles.

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