



Nanoparticle Technologies: Chapter 3. Dry Production Methods (Interface Science and Technology)

Farid Bensebaa

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Dry methods offer several advantages including low financial and environmental impacts. However, the relatively large particle size distribution combined with difficulty in surface functionalization reduces the scope of their applications. The majority of dry methods are based on mechanical and gas-phase processes. Other techniques including cryomelting, laser pyrolysis, reactive plasma arc evaporation, microwave plasma process, epitaxial growth, rapid quenching solidification, ion-beam sputtering, self-propagating high-temperature synthesis, and hydrogen reduction are also discussed. Ball milling is a cost-effective process although it gives rise to a significant number of defects. Improved NP quality over large composition and size ranges is obtained using mechanochemical (also referred to as mechanosynthesis) methods. Inert-gas condensation, combustion flame synthesis, chemical vapor condensation, and aerosol spray pyrolysis allow continuous production of high-quality and cost-effective NPs. Thermal spray and chemical vapor deposition techniques allow directly integrated NP synthesis. Higher quality NPs are obtained using physical vapor synthesis although the cost is relatively higher.

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