

# **Gas Phase Nanoparticle Synthesis**



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## **Gas Phase Nanoparticle Synthesis**

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This book deals with gas-phase nanoparticle synthesis and is intended for researchers and research students in nanomaterials science and engineering, condensed matter physics and chemistry, and aerosol science. Gas-phase nanoparticle synthesis is instrumental to nanotechnology - a field in current focus that raises hopes for environmentally benign, resource-lean manufacturing. Nanoparticles can be produced by many physical, chemical, and even biological routes. Gas-phase synthesis is particularly interesting since one can achieve accurate manufacturing control and hence industrial viability. Nanotechnology is popular today. However, basic scientific aspects of the relevant, underlying processes have not received sufficient attention. This book fills the gap in the current literature by addressing certain fundamentals of gas-phase nanoparticle synthesis. Chapters cover topics such as forces within and dynamics of nanoparticle systems, gas evaporation and deposition, laser assisted nanoparticle synthesis, and nanoparticle fabrication via flame processes. A chapter on in-situ structural studies of nanoparticles undergoing growth complements the exposition.

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