



# Chapter 003, Common Analytical Techniques for Nanoscale Materials

*Andrew Collins*

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NOTE: This is a single chapter excerpted from the book *Nanotechnology Cookbook*, made available for individual purchase. Additional chapters, as well as the entire book, may be purchased separately.

The peculiarities of materials at the nanoscale demand an interdisciplinary approach which can be difficult for students and researchers who are trained predominantly in a single field. A chemist might not have experience at working with cell cultures or a physicist may have no idea how to make the gold colloid they need for calibrating an atomic force microscope. The interdisciplinary approach of the book will help you to quickly synthesize information from multiple perspectives.

Nanoscience research is also characterized by rapid movement within disciplines. The amount of time it takes wading through papers and chasing down academics is frustrating and wasteful and our reviewers seem to suggest this work would give an excellent starting point for their work. The current source of published data is either in journal articles, which requires highly advanced knowledge of background information, or books on the subject, which can skim over the essential details of preparations. Having a cookbook to hand to flick through and from which you may select a preparation acts as a good source of contact both to researchers and those who supervise them alike.

This book therefore supports fundamental nanoscience experimentation. It is by intention much more user-friendly than traditional published works, which too-frequently assumes state of the art knowledge. Moreover you can pick up this book and find a synthesis to suit your needs without digging through specialist papers or tracking someone down who eventually may or may not be able to help. Once you have used the recipe the book would then act as a reference guide for how to analyze these materials and what to look out for.

- 100+ detailed recipes for synthesis of basic nanostructured materials, enables readers to pick up the book and get started on a preparation immediately.
- High fidelity images show how preparations should look rather than vague schematics or verbal descriptions.
- Sequential and user-friendly by design, so the reader won't get lost in overly detailed theory or miss out a step from ignorance.
- A cookbook, by design and structure the work is easy to use, familiar and compact.

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