



Colloid and Surface Chemistry: A Laboratory Guide for Exploration of the Nano World

Seyda Bucak, Deniz Rende

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With principles that are shaping today's most advanced technologies, from nanomedicine to electronic nanorobots, colloid and interface science has become a truly interdisciplinary field, integrating chemistry, physics, and biology. **Colloid and Surface Chemistry: Exploration of the Nano World- Laboratory Guide** explains the basic principles of colloid and interface science through experiments that emphasize the fundamentals. It bridges the gap between the underlying theory and practical applications of colloid and surface chemistry.

Separated into five chapters, the book begins by addressing research methodology, how to design successful experiments, and ethics in science. It also provides practical information on data collection and analysis, keeping a laboratory notebook, and writing laboratory reports. With each section written by a distinguished researcher, chapter 2 reviews common techniques for the characterization and analysis of colloidal structures, including surface tension measurements, viscosity and rheological measurements, electrokinetic methods, scattering and diffraction techniques, and microscopy.

Chapters 3–5 provide 19 experiments, each including the purpose of the experiment, background information, pre-laboratory questions, step-by-step procedures, and post-laboratory questions. Chapter 3 contains experiments about colloids and surfaces, such as sedimentation, exploration of wetting phenomena, foam stability, and preparation of miniemulsions. Chapter 4 covers various techniques for the preparation of nanoparticles, including silver, magnetic, and silica nanoparticles. Chapter 5 demonstrates daily-life applications of colloid science, describing the preparation of food colloids, body wash, and body cream.

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