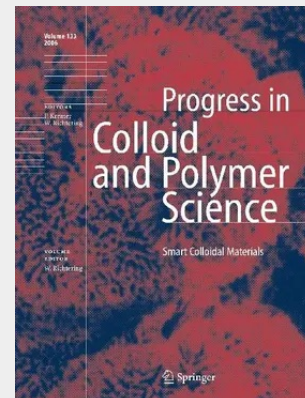


## Smart Colloidal Materials

This volume contains selected papers presented at the 42nd Biennial Meeting of the Kolloid-Gesellschaft held at the RWTH Aachen University September 26-28, 2005. The contributions in this volume represent the diversity of research topics in colloid and polymer science. They include the investigation of synthesis and properties of advanced temperature sensitive particles and their biomedical applications, drug delivery systems, foams, capsules, vesicles and gels, polyelectrolytes, nanoparticles surfactants and hybrid materials.

Polymer Particles and Capsules.- Amphiphilic, Peptide-Modified Core/Shell Microgels.- Thermally Sensitive Colloidal Particles: From Preparation to Biomedical Applications.- Microparticles Used as Drug Delivery Systems.- Molecular Exchange Through Capsule Membranes Observed by Pulsed Field Gradient NMR.- Modular Surfmers with Activated Ester Function - A Colloidal Tool for the Preparation of Bioconjugative Nanoparticles.- Structure of Doubly Temperature Sensitive Core-Shell Microgels Based on Poly-N-Isopropylacrylamide and Poly-N-Isopropylmethacrylamide.- Responsive Giant Vesicles Filled with Poly(N-isopropylacrylamide) Sols or Gels.- Polyelectrolytes, Colloidal Interactions.- Surface Modification of Thermoresponsive Microgels via Layer-by-Layer Assembly of Polyelectrolyte Multilayers.- Potential Profiles Between Polyelectrolyte Multilayers and Spherical Colloids Measured with TIRM.- Polyelectrolyte-mediated Protein Adsorption.- The Present State of Molecular Forces.- Ion Specific Interactions Between Pairs of Nanometer Sized Particles in Aqueous Solutions.- Star Polymers with Tunable Attractions: Cluster Formation, Phase Separation, Reentrant Crystallization.- Consistence of the Mean Field Description of Charged Colloidal Crystal Properties.- Restricted Rotational Diffusion of Non-rigid Dumbbell-Type Macromolecules on Surfaces: Effects of the Bead-Bead and Bead-Surface Interaction.- Surfactants.- The Rheology of Foams.- Photo-destructible Surfactants in Microemulsions.- Soret Effect in a Nonionic Surfactant System.- Surfactant Adsorption in Ordered Mesoporous Silica Studied by SANS.- Thermodynamic Analysis of Lysozyme Denaturation by Surfactants.- Benzyl (3-Acylaminopropyl) Dimethylammonium Chloride Surfactants: Structure and Some Properties of the MicellarAggregates.- Particles and Characterization.- Long Range Particle Transport in Liquid Crystal-alkane Mixtures.- Titania Coated Silica Nano-spheres as Catalyst in the Photodegradation of Hydrocarbons.- Formation of Rod-like CdS Nanoparticles in SDS/Decanol Based Multilamellar Vesicles.- Colloidchemical Interactions of Silica Particles in the Cu-CMP-Process.- Characterization of Porous Bead Celluloses by Analytical Centrifugation.- Light-scattering in Turbid Fluids: Scattering Intensity and Amplitude of the Auto-correlation Function.



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