



X-DLVO Interactions between Nanocolloidal Magnetic Particles: The Quantitative Interpretation of the pH-Depende nt Phase Diagram of EDL-MF

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The phase behavior of acidic samples of EDL-MF based on cobalt ferrite nanoparticles with controlled mean sizes was investigated a t constant temperature and in absence of magnetic field. By monitoring the nanoparticle charge by pH adjustments, we constructed an experi mental pH-dependent phase diagram for all samples that revealed sol, gel thixotropic or coagulated phases in different pH regions. Then, by u sing an extended DLVO potential we analyzed quantitatively the observed phase diagram in function of pH and nanoparticle mean size. 存档文本

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