Full Paper

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Formation of sulfur nanoparticles from the aqueous solution of barium polysulfide

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Abstract

The process of sulfur nanoparticles formation from the aqueous solution of barium polysulfide has been discussed. Measurements of particle sizes were carried out on the laser particle size analyzer SALD 7101 and probe microscope SOLVER PRO M. The possibility of obtaining nanoparticles of sulfur in the range from 10 nm to 40 nm, and regulate their size in aqueous dispersion has been reported. We revealed a strong dependence of particle size on the concentration of polysulfide.