Triton X-100/C10H21OH/H2O体系层状液晶中超微粒子材料PbS的合成

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将Pb(NO3)2和Ns2S分别溶于Triton X-100/C10H21OH/H2O体系层状液晶溶剂层中, 混和即可在溶剂层中生成PbS粒子,并以层状液晶中溶剂层厚度的大小,限定所合成PbS粒子的尺寸小于10nm, 改变有关组分含量对PbS超微粒子大小无显著影响,所合成PbS超微粒子的平均粒径均小于10nm. 表面活性剂 水 液晶 硫化钠 硫化铅 超微粒子 TRITON X-100 硝酸铅 关键词 分类号 064

The synthesis of fine particles PbS in Triton X-100/C10H21OH/H2O lamellar liquid crystal

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Abstract Pb(NO3)2 and Na2S were respectively dissolved in solvation layer of Triton X-100/C10H21OH/H2O lamellar liquid crystal. Mixing up the two liquid crystal systems could synthesize fine particles PbS in the solvation layer. The synthesis was based on the limitation of the change of thickness of solvation layer in the lamellar liquid crystal. The size of fine particle PbS thus synthesized was less than 10nm, and changing the related composition concentration didn't much 本文作者相关文章 affect the size of fine particles PbS.

Key words SURFACTANTS WATER LIQUID CRYSTAL SODIUM SULFIDE LEAD SULFIDE ULTRAMICRON LEAD NITRATE

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