用多种仪器分析反相微乳液法制备的纳米聚苯胺

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摘　要：采用透射电镜和红外光谱联用的方法对反相微乳液法制备的纳米聚苯胺进行研究。将其聚合产物与溶液聚合的产物比较,从聚合物的构成及形貌两方面分析,可以证明,反相微乳液法制备的聚苯胺不仅在尺寸上达到了纳米级,而且它的分子结构也与传统的溶液方法所得产物一致。

关键词：

The analysis about PAN nano-particle polymerized in inverse microemulsion with IR spectrum and TEM

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Abstract：In this paper, we adopt an inverse microemulsion system to prepare polyaniline (PAN) nano-particles and make comparison among the characters of products of two system, solution and inverse microemulsion, with IR spectrum and TEM (transmission electron microscope) . We can prove not only the size of the PAN polymerized in inverse microemulsion is within 100nm, but also the microstructure is consistent with the PAN polymerized in solution.

Key words：