



## 羧基功能化离子液体修饰Pd纳米微粒的制备及结构表征

### Preparation and Structural Characterization of Carboxyl-functional Ionic Liquid Modified Pd Nanoparticles

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中文关键词: 羧基功能化离子液体; Pd纳米微粒; 结构表征

英文关键词: carboxyl-functionalized ionic liquids; Pd nanoparticles; structural characterization

基金项目:

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中文摘要:

英文摘要:

1-methyl-3-( $\omega$ -carboxyl)decyl imidazolium bromine ( $[C_{11}00Hmim]Br$ ) ionic liquid was synthesized and  $[C_{11}00Hmim]Br$  modified Pd nanoparticles were prepared in solution. The morphology and structure of Pd nanoparticles were investigated by IR, TEM, XRD, XPS. The results indicated that the Pd nanoparticles were face-centered cubic structure and the diameter was between 10~30 nm.  $[C_{11}00Hmim]Br$  was connected to the surface of Pd nanoparticles by carboxyl and Pd nanoparticles with different sizes could be obtained by varying the amount of the modifier.

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