#### NaZr~2(AsO~4)~3的水热合成研究

王海增,屠昆岗,庞文琴

吉林大学化学系

收稿日期 修回日期 网络版发布日期 接受日期

摘要 用水热法合成了NaZr~2(AsO~4)~3, 研究了水热合成诸因素对产物物相的影响。将F^-引入NaZr~2(AsO~4)~3的水热合成中, 降低了晶化温度, 生长出纯的完美的较大单晶。初步探讨了NaZr~2(AsO~4)~4的水热晶化过程。用XRD, IR和Raman光谱对各种条件下得到的产物进行了表征。

关键词 <u>红外分光光度法</u> <u>X射线衍射分析</u> 拉曼光谱法 <u>水热合成</u>

国家教委高等学校博士学科点专项科研基金 砷酸锆钠

分类号 0612

### Studies on the hydrothermal synthesis of NaZr~2(AsO~4)~3

WANG HAIZENG, TU KUNGANG, PANG WENQIN

**Abstract** NaZr2(AsO4)3 was synthesized hydrothermally. The effects of the conditions of hydrothermal synthesis on the phases of products were discussed. The process of the hydrothermal crystallization of NaZr2(AsO4)3 was studied. The F-, which was introduced into the hydrothermal synthesis of NaZr2(AsO4)3, lowered the temperature of the crystallization and benefitted the growth of the perfect larger single crystal of NaZr2(AsO4)3. The products obtained in various hydrothermal conditions were characterized by XRD, IR and Raman spectra.

Key wordsINFRARED SPECTROPHOTOMETRYX-RAY DIFFRACTION ANALYSISRAMANSPECTROMETRYHYDROTHERMAL METHOD

DOI:

通讯作者

### 扩展功能

## 本文信息

- ► Supporting info
- ▶ <u>PDF</u>(0KB)
- ▶[HTML全文](0KB)
- ▶参考文献

## 服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶ 复制索引
- ► Email Alert
- ▶文章反馈
- ▶浏览反馈信息

# 相关信息

- ▶ <u>本刊中 包含"红外分光光度法"的</u> 相关文章
- ▶本文作者相关文章
- 王海增
- ・屠昆岗
- 庞文琴