

技术及应用

# 不同厚度石英对 $\alpha$ 射线的热释光响应

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收稿日期 2008-1-25 修回日期 2008-4-1 网络版发布日期: 2008-7-25

**摘要** 实验研究了不同厚度石英对 $\alpha$ 射线的热释光(TL)响应。使用经2.64 Gy  $\alpha$ 辐照过的石英, 在相同面积的铝片上制作成不同厚度的石英样品, 用热释光剂量仪读取峰面积积分, 最终得出不同厚度的石英随辐照剂量变化的热释光响应。

**关键词** [石英](#) [剂量](#) [热释光响应](#)

**分类号** [0482.31](#)

## Thermoluminescence Response to $\alpha$ -irradiation for Quartz Samples With Different Thickness

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**Abstract** The quartz samples with different thickness were adopted to study the thermoluminescence (TL) responses to the  $\alpha$ -irradiation. The quartz was exposed at 2.64 Gy  $\alpha$ -irradiation dose, and then the exposed quartz was installed on aluminous slice with different thickness and same area. According to area integral of the TL peak measured on the equipment, the responses to the alpha dose were obtained for the different thickness quartz samples.

**Key words** [quartz](#); [dose](#); [thermoluminescence](#) [response](#)

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