

# 氚在注入铝、氧和钼、铬离子的铀中的扩散渗透行为研究

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**摘要** <正> 一、引言 铀与氚有较强的化学反应,这种反应随氚的压力和温度的增加而加剧。当氚在金属(?)中的浓度低于铀对氚的固溶极限时,氚与铀发生非常缓慢的氚化反应,这时,氚从高浓度端

**关键词** [氚渗透](#) [铀](#) [离子注入](#)

**分类号**

## INVESTIGATION ON BEHAVIOR OF DIFFUSION AND PERMEATION OF TRITIUM IN URANIUM IMPLANTED WITH ALUMINIUM、 OXYGEN、 MOLYBDENUM AND CHROMIUM

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**Abstract** The results and discussion of permeability of tritium in uranium and uranium Implanted with aluminium, oxygen , molybdenum and chromium are presented, the results of measurement indicate that permeability of tritium in uranium implanted with aluminium and oxytgen is 3 orders of magnitude lower than that in uranium and permeability of tritium in uranium implanted with molybdenum and chromium is 2 orders of magnitude lower than that in uranium , at 373- 473K.

**Key words** [Tritium permeation](#)[Uranium](#)[Ion implantation.](#)

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