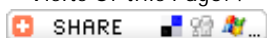




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Research Details :

Research Title : RADIOLYSIS OF CRYSTALLINE NICKEL OXALATES
RADIOLYSIS OF CRYSTALLINE NICKEL OXALATES

Descriptipn : Radiolysis of crystalline $K_2Ni(C_2O_4) \cdot 2.6H_2O$, $K_2Ni(C_2O_4)_2$ and $Ni(C_2O_4) \cdot 2H_2O$ has been investigated. The results showed that in $K_2Ni(C_2O_4) \cdot 2.6H_2O$, the initial $G(Ni^{3+})$ has a value of 3.75 and drops to about 1.27 when the dose approaches 1.2×10^{22} eV g⁻¹. The decrease in $G(Ni^{3+})$ with increasing radiation dose is accompanied with an increase in $G(Ni^{2+})$. In the irradiated anhydrated complex, the results however show an increase in $G(Ni^{3+})$ and a decrease in $G(Ni^{2+})$ with increasing radiation dose. The radiolysis of $Ni(C_2O_4) \cdot 2H_2O$ showed an increase in $G(Ni^{3+})$ with increasing radiation dose. A mechanism has been suggested to explain the observed results.

Research Type : Article

Research Year : 1991

Publisher : RADIATION PHYSICS AND CHEMISTRY Volume: 38 Issue: 6 Pages: 561-563

Added Date : Saturday, June 14, 2008

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