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The Effect of Various Experimental Parameters on Glow Peaks and Trapping Parameters of
CaF₂:Dy (TLD-200) Crystals

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Abstract: In the present study, thermoluminescence glow curves of CaF₂:Dy (TLD-200) crystals have been investigated in detail between the temperature region 300-550 K. The number of peaks and their trapping parameters (E, s and b) have been determined using the computerized glow curve fitting, peak shape and isothermal decay methods. In addition, the effect of storage times at room temperature, dose levels and heating rates on the trapping parameters have been investigated in detail by using computerized glow curve deconvolution method (CGCD) using first and general order kinetic equations.

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