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Determination of K Shell Fluorescence Parameters for Some Elements in the Atomic Number Range $50 \leq Z \leq 60$

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The fluorescence cross sections, fluorescence yields, level widths and intensity ratio for some elements in the atomic range $50 \leq Z \leq 60$ were measured. The targets were excited using photons of 59.54 keV emitted from an Am-241 (about 100 mCi) radioactive source. Emitted K X-ray photons from targets were collected by means of a Si(Li) detector with resolution of 160 eV at 5.9 keV. The present results are generally in a good agreement with theoretical calculations and the other results obtained in the literature.