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## Influence of radiation damage on the crystal structure of monazite

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Understanding the structural change caused by radiation damage is an essential element in the development of strategies for the safe disposal of radioactive waste. For this purpose, monazite crystals of different chemical composition were synthesized and irradiated with 1.7 GeV Au ions to simulate the radiation damage caused by radioactive decay. Subsequently, the single crystals were characterized by Raman spectroscopy, secondary electron microscopy and single crystal X-ray diffraction.

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