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Elemental Analysis Using Parametric X-ray Generated at LEBRA, Nihon University

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Using the energy-valuable monochromatic X-ray beam sourced by Parametric X-ray radiation at the Laboratory for Electron Beam Research and Application (LEBRA) of Nihon University, distribution map of Sr in the fossil dinosaur eggshell could be revealed by tracing the X-ray absorption edge. The more advanced and smart element detecting system was built at LEBRA. The new system enabled to detect the interested element by taking an image of the higher and the lower side of the X-ray energy for the elemental absorption edge simultaneously.

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