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Femtosecond Laser Induced Breakdown Spectroscopy applied to depth profiling of 500-micron ZrO₂ spheres

Femtosecond Laser Induced Breakdown Spectroscopy (femto-LIBS) was applied to a depth profiling problem in 500-micron diameter spheres of ZrO₂. The spheres were provided containing silver inside, and in addition they were coated with a thin layer of silver on the surface for this study. This is a feasibility study for diagnosing leakage of radioactive silver through the silicon carbide barrier of fuel particles for a high temperature gas reactor.

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