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In-situ U-Pb dating of basaltic lunar meteorites

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The lunar meteorites have been valuable sources for understanding the evolution of the Moon's crust, because each meteorite could potentially provide a new insight into the thermal history of unexplored regions on the Moon. In spite of their scientific interest, chronological studies of basaltic meteorites have not been well understood, since the most of lunar meteorites are brecciated and consist of mixtures of materials with different origins. In this paper, we will report our recent findings regarding in-situ U-Pb ages of lunar basaltic breccias.