

Fast scanning calorimetry measurements of metallic materials

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Fast scanning calorimetry offers a new capability to explore previously inaccessible domains of reaction kinetics due to its ultrafast scanning rates and ultrahigh sensitivity compared to conventional calorimetric methods. With this capability it is now possible to demonstrate the kinetic reactions in a wide range of heating and cooling rates, e.g. the nucleation of single Sn droplets, glass formation and cold crystallization of metallic glasses.