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Simultaneous enhancement in thermoelectric performance and mechanical stability of p-type SiGe alloy doped with Boron prepared by mechanical alloying and spark plasma sintering

R. Murugasami, P. Vivekanandhan, S. Kumaran, R. Suresh Kumar, T. John Tharakan

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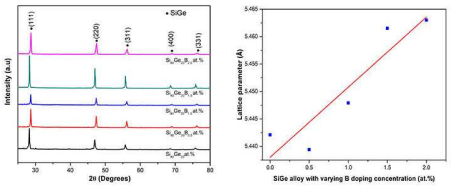
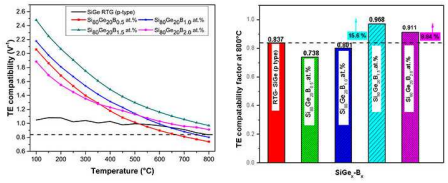
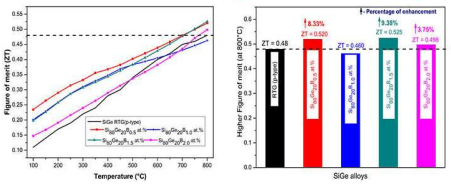
Spark plasma sintered SiGe alloys (doped with B)



Enhanced thermoelectric compatibility factor SiGe alloys



Enhanced thermoelectric Figure of merit of SiGe alloys



Enhanced mechanical properties of SiGe alloys