Supplementary Information

Spark Discharge Synthesis and Characterization of Ge/Sn Janus Nanoparticles

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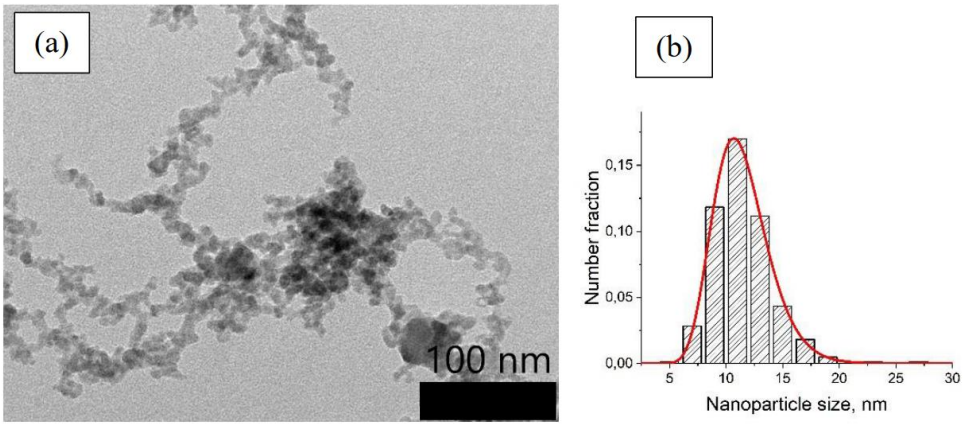

Figure S1. (**a**) TEM image of the Ge/Sn agglomerates prepared in spark discharge with additionalthermal treatment at 325 °C and (**b**) the corresponding primary particle size distribution, approximated by a lognormal function.

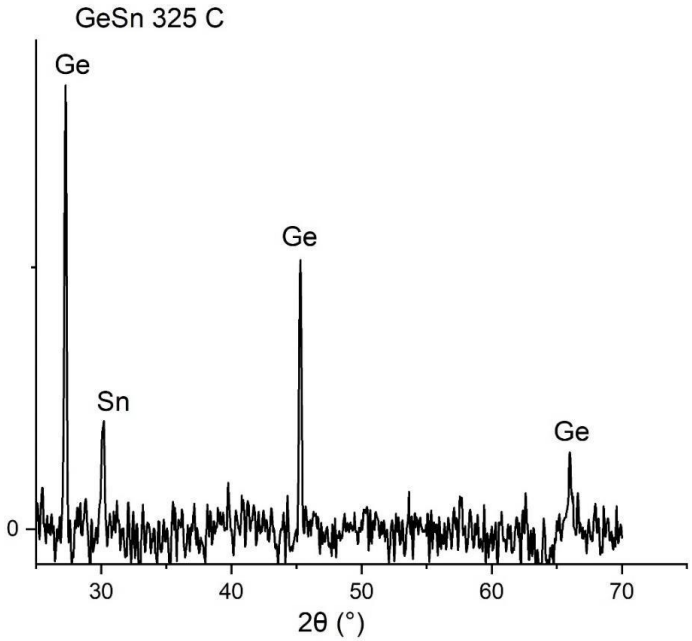

Figure S2. The XRD pattern of the Ge/Sn agglomerated nanoparticles, prepared in sparkdischarge with additional heat treatment in a tube furnace at 325 °C.

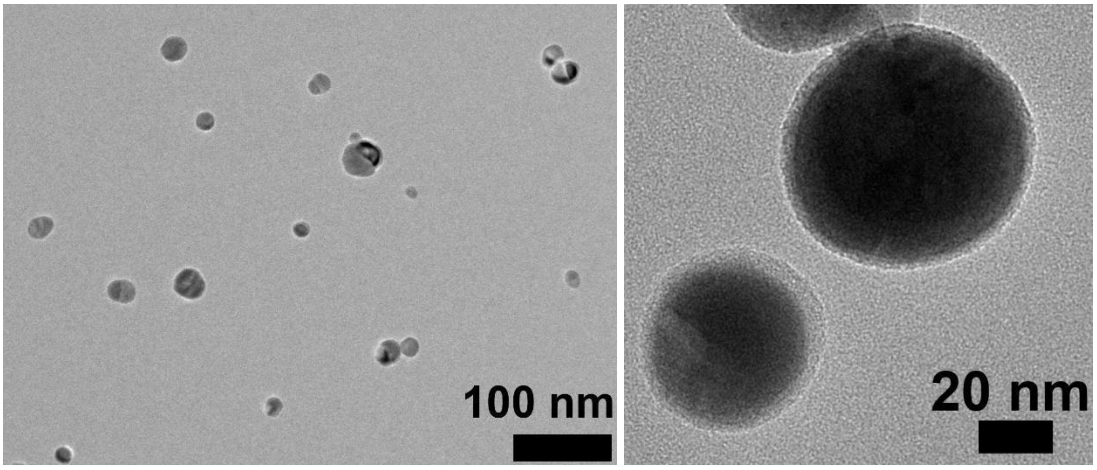

Figure S3. TEM images of the individual Ge/Sn nanoparticles with crystal core covering by amorphous shell, prepared in spark discharge with additional heat treatment in a tube furnace at 750 °C.