Electronic Supplementary Information

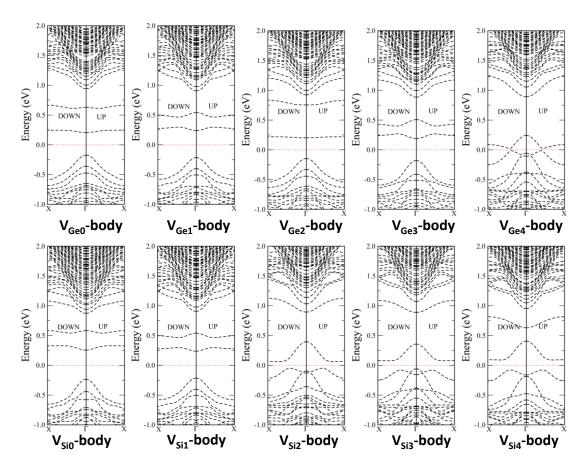
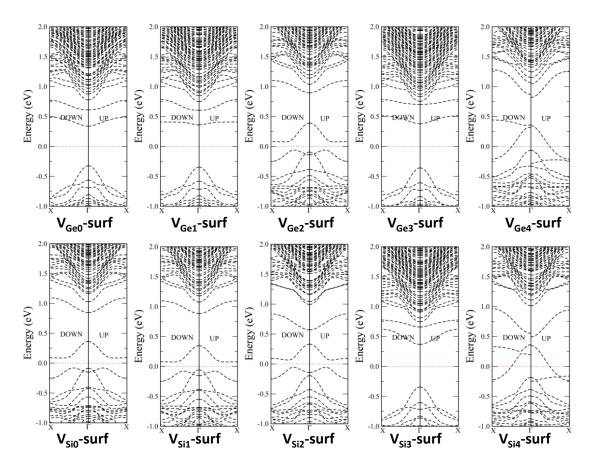


Figure S1 Computed band structures of the random-distributed triangular-prism (RTP) Si/Ge NWs with Ge and Si single vacancy in the body.



 $\begin{tabular}{ll} Figure~S2~Computed~band~structures~of~the~random-distributed~triangular-prism~(RTP)~Si/Ge~NWs~with~Ge~and~Si~single~vacancy~on~the~surface. \end{tabular}$