Our published paper titled "Band alignments at strained Ge<sub>1-x</sub>Sn<sub>x</sub>/relaxed Ge<sub>1-y</sub>Sn<sub>y</sub> heterointerfaces," 50, 13LT02, *J. Phys. D: Appl. Phys.*, 2017.

GeSn heterostructures have attracted great attention in electronic and photonic device applications. To design the device structures, knowledge of band alignments at the heterointerfaces is required. Nevertheless, few information of band alignments at GeSn heterointerfaces is reported using the corrected average valence band offset ( $\Delta E_{v,av}$ ) [Senaratne C L et al 2016 J. Appl. Phys. 120 025701] and reliable band structure calculations. In this article, band alignments at fully strained Ge<sub>1-x</sub>Sn<sub>x</sub>/relaxed Ge<sub>1-y</sub>S<sub>y</sub> heterointerfaces are theoretically studied based on the corrected  $\Delta E_{v,av}$  and our calibrated nonlocal empirical pseudopotential method (EPM). The uncorrected  $\Delta E_{v,av}$  and deformation potential method are also used for comparison. The corrected  $\Delta E_{v,av}$  and our EPM have most accurate valence band offset with the available experimental data [Yamaha T et al 2016 Appl. Phys. Lett. 108 061909]. Note that the calculated valence band offsets at SiGe heterointerfaces by the same method agree with previous reported experimental data [Teherani J T et al 2012 Phys. Rev. B 85 205308]. The given band alignments, bandgaps (indirect and direct bandgaps), and band offsets (conduction and valence band offsets) of strained Ge<sub>1-x</sub>Sn<sub>x</sub>/relaxed Ge<sub>1-y</sub>S<sub>y</sub> heterostructures could be fundamental information for designing GeSn heterostructures in possible applications afterward.

Sincerely yours,

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