

## Extremely large magnetoresistance in the nonmagnetic semimetal YBi

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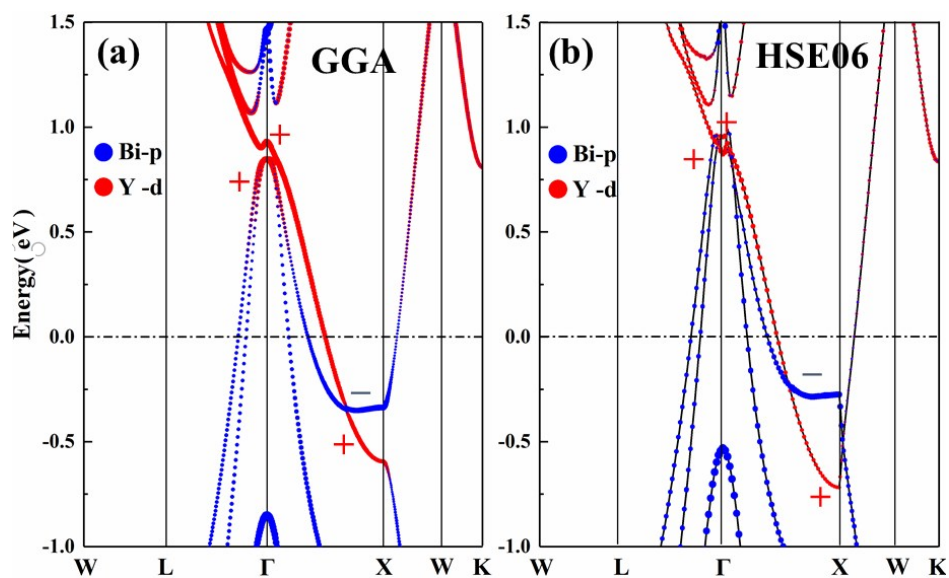


Figure S1. Calculated band structure of YBi within (a) GGA and (b) HSE06 level. In GGA calculation, it is found that the product of parities at 8 time-reversal-invariant points are “+++--+”, indicating that YBi is topological nontrivial with  $Z_2$  index

(1;000). Besides, the energy band structure checked by additional calculations within HSE06 also shows the same results.