Electronic Supporting information



Figure S1. Discharging curve of the self-assembled battery used for electrochemical Li intercalation process, discharging by 0.3 mA electric current.



Figure S2. a), b) Photograph and SEM micrograph of pristine micro-scaled Bi₂Se_{0.3}Te_{2.7} powder; c), d) Photograph and SEM micrograph of Li_{0.89}Bi₂Se_{0.3}Te_{2.7} powder after Li intercalation (1 mA, Li amount: 30 mAh/g); e) The colloidal suspensions of as-produced Bi₂Se_{0.3}Te_{2.7} nano-particles with different densities.

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Figure S3. a) XRD patterns of Li_{0.89}Bi₂Se_{0.3}Te_{2.7} powders with the same Li intercalating amount of Q/m=30mAh/g using different magnitudes of discharging currents. b) XRD patterns of Li_yBi₂Se_{0.3}Te_{2.7} powders with different Li intercalating amounts using the same discharging current of 0.3mA. c) XRD patterns of water exposed products.